Procedo
INTERNATIONAL CERTIFICATION

Reg. No. 672/Q-084

CERTIFICATE

This is to certify that the Quality management system for medical devices of the company

CiTEST DIAGNOSTICS INC.
170-422, RICHARDS ST, VANCOUVER, BC V6B 2Z4, CANADA

has been found in compliance with requirements of the standard

ISO 13485: 2016 /
EN ISO 13485: 2016 + A11: 2021

for the following scope:

Design and Development, Production and Distribution of In Vitro Diagnostic Reagents,Control Material and Instruments for Clinical Chemistry, Immunochemistry (Immunology),Haemostasis, Infectious Diseases and Immunohaematology, including Professional Laboratory Use, Near Patient and Self Testing

Certificate no.: QMS-13-001-2022/A
Initial certificate issue: 12/04/2022

Date of issue: 07/04/2025
Valid from: 12/04/2025

On condition that the organisation will maintain an effective quality management system for medical devices, this certificate remains valid until ***11/04/2028.***

Digitally signed by Dolgopol Iulian
Date: 2026.01.20 11:40:44 EET
Reason: MoldSign Signature
Location: Moldova
MOLDOVA EUROPEANĂ

Procedo
INTERNATIONAL CERTIFICATION
Certification Body

Ľubica Škrovanová
Head of Certification Body

Quality management system

CERTIFICATE

EC Declaration of Conformity

Manufacturer:
CITEST DIAGNOSTICS INC.
170-422 Richards Street, Vancouver BC V6B 2Z4 Canada
Single Registration Number: CA-MF-000022516

European Representative:
VIDAQUICK BIOTECH S.L.
No.132, Rosello Street, Barcelona, Barcelona Province, 08036, Spain
Single Registration Number: ES-AR-000048138

Herewith declare that the products described below:

Product name: Refer to Attachment I
Cat No: Refer to Attachment I
Classification: Self-declaration of IVDD 98/79/EC
Conformity Assessment Route: IVDD 98/79/EC Annex III (including section 6)

meet the transposition into national law, the provisions of the following EC Council Directives and Standards. All supporting documentations are retained under the premises of the manufacturer.

General applicable directives:
DIRECTIVE 98/79/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 October 1998 on in vitro diagnostic medical devices

Standard Applied: EN ISO 13485:2016, EN ISO 14971:2019, EN 13975:2003, EN ISO 18113-1:2011, EN ISO 18113-2:2011, ISO 20916:2019, EN ISO 23640:2015, EN 13641:2002, EN ISO 15223-1:2021, EN 62366-1:2015

These products are covered by the declaration of conformity signed on 25/05/2022. This has had to be amended only as far as change of EC REP is concerned.
As the Manufacturer we declare that:
- The products continue to comply with the provisions of Directive 98/79/EC;
- There are no significant changes in the design or intended purpose;
- The products do not present a risk to the health or safety of the patient, users or other persons or to other aspects of public health protection.

Place, Date: Vancouver, June 26, 2025
Signature:
Name: Fu Yanping
Title: General Manager

CITEST DIAGNOSTICS INC

Attachment I Product List- Drug of Abuse

Cat.no.	Product Name	Certificate No.	Classification under IVDD
DABP-102/114/101	AB-PINACA (ABP) Rapid Test (Urine)	RPS/1188/2025	Self-declaration Others
DAC-102/114/101	Acetaminophen (ACE) Rapid Test (Urine)	RPS/1188/2025	Self-declaration Others
DACL-102/114/101	7-Aminoclonazepam (7-ACL) Rapid Test (Urine)	RPS/1188/2025	Self-declaration Others
DAL-102/114/101	Alcohol (ALC) Rapid Test (Urine)	RPS/1188/2025	Self-declaration Others
DAL-801/802/803	Alcohol Rapid Test (Oral Fluid)	RPS/1190/2025	Self-declaration Others
DAL-902	Breath Alcohol Test With/Without blow bag (Breath)	RPS/1190/2025	Self-declaration Others
DALP-102/114/101	Alprazolam(ALP) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DAM-102/114/101	Amphetamine (AMP) Rapid Test (Urine)	RPS/1188/2025	Self-declaration Others
DAM-402	AMP Rapid Test (WB/S/P)	RPS/1215/2025	Self-declaration Others
DAM-802/803	Amphetamine (AMP) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DAM-H902	Amphetamine (AMP) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DAP-102/114/101	alpha-Pyrrolidinovalerophenone (alpha-PVP) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DAP-802/803	α-Pyrrolidinovalerophenone (α-PVP) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DAT-111	Adulteration Test(Urine)	RPS/1190/2025	Self-declaration Others
DBA-102/114/101	Barbiturate (BAR) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DBA-402	BAR Rapid Test (WB/S/P)	RPS/1215/2025	Self-declaration Others
DBA-802/803	Barbiturates (BAR) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DBA-H902	Barbiturate (BAR) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DBU-102/114/101	Buprenorphine (BUP) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DBU-402	BUP Rapid Test (WB/S/P)	RPS/1215/2025	Self-declaration Others
DBU-802/803	Buprenorphine (BUP) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DBU-H902	Buprenorphine (BUP) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DBZ-102/114/101	Benzodiazepines (BZO) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DBZ-402	BZO Rapid Test (WB/S/P)	RPS/1215/2025	Self-declaration Others
DBZ-802/803	Benzodiazepines (BZO) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DBZ-H902	Benzodiazepines (BZO) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DCA-102/114/101	Cathine (CAT) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DCAF-102/114/101	Caffeine (CAF) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DCAR-102/114/101	Carisoprodol(CAR) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DCCHOCI	Cholesterol Test Strip (3 in 1 test)	RPS/1174/2025	Self-declaration Others
DCFY-102/114/101	Carfentanyl(CFYL) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DCFY-802/803	Carfentanyl(CFYL) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DCIT-CT102/114/101	Citalopram (CIT) Rapid Test (Urine)	RPS/1222/2025	Self-declaration Others
DCL-102/114/101	Clonazepam (CLO) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DCNB-102/114/101	Cannabinol (CNB) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DCO-102/114/101	COCAINE (COC) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DCO-402	COC Rapid Test (WB/S/P)	RPS/1215/2025	Self-declaration Others
DCO-802/803	COCAINE (COC) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DCO-H902	Cocaine (COC) Rapid Test(Hair)	RPS/1220/2025	Self-declaration Others
DCT-102/114/101	Cotinine (COT) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DCT-402	COT Rapid Test (WB/S/P)	RPS/1215/2025	Self-declaration Others
DCT-802/803	Cotinine (COT) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DCT-H902	Cotinine (COT) Rapid Test (Hair)	RPS/1220/2025	Self-declaration Others
DDI-102/114/101	Diazepam (DIA) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others

DED-102/114/101	Ethylenediamine-dimethylphosphinic acid (EDDP) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DED-402	EDDP Rapid Test (WB/S/P)	RPS/1215/2025	Self-declaration Others
DET-102/114/101	Ethyl Glucuronide (ETG) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DET-402	ETG Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DETO-CT102/114/101	Etomidate (ETO) Rapid Test (Urine)	RPS/1159/2025	Self-declaration Others
DFKE-CT102/114/101	Fluoketamine (FKET) Rapid Test (Urine)	RPS/1222/2025	Self-declaration Others
DFLX-102/114/101	Fluoxetine (FLX) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DFY-102/114/101	Fentanyl (FYL) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DFY-402	FYL Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DFY-802/803	Fentanyl (FYL) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DGAB-102/114/101	Gabapentin(GAB) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DGHB-102/CT114/CT 101	gamma-Hydroxybutyric acid (GHB) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DGHB-CT114/101	γ-Hydroxybutyric acid (GHB) Rapid Test	RPS/1166/2025	Self-declaration Others
DKE-102/114/101	Ketamine (KET)Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DKE-402	KET Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DKE-802/803	Ketamine(KET) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DKE-H902	Ketamine (KET) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DKRA-102/114/101	Kratom(KRA) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DLS-102/114/101	Lysergic Acid Diethylamide (LSD) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DLS-402	LSD Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DMA-102/114/101	6-Monoacetylmorphine (6-MAM) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DMA-802/803	6-Monoacetylmorphine (6-MAM) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DMA-H902	6-Monoacetylmorphine (6-MAM) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DMCA-102/114/101	Methcathinone(MCAT) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DMD-102/114/101	Ecstasy (MDMA) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DMD-402	MDMA Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DMD-802/803	Ecstasy (MDMA) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DMDA-102/114/101	Tenamfetamine (MDA) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DMDA-402	MDA Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DMD-H902	Ecstasy (MDMA) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DMDP-102/114/101	Methylenedioxypyrovalerone (MDPV) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DMDP-402	MDPV Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DMDP-802/803	Methylenedioxypyrovalerone (MDPV) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DME-102/114/101	Methamphetamine (MET) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DME-402	MET Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DME-802/803	Methamphetamine (MET) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DME-H902	Methamphetamine (MET) Rapid Test (Hair)	RPS/1220/2025	Self-declaration Others
DMEP-102/114/101	Mephedrone HCI (MEP) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DMES-102/114/101	Mescaline (MES) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DMO-102/114/101	Morphine (MOP) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DMO-402	MOP Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DMO-H902	Morphine (MOP) Rapid Test (Hair)	RPS/1220/2025	Self-declaration Others
DMP-102/114/101	Methylphenidate(MPD) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DMPR-102/114/101	Meperidine (MPRD) Rapid Test (Urine)	RPS/1189/2025	Self-declaration Others
DMQ-102/114/101	Methaqualone (MQL) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DMT-102/114/101	Methadone (MTD) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others

DMT-402	MTD Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DMT-802/803	Methadone (MTD) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DMT-CTH902	MTD Rapid Test Cassette (Hair)	RPS/1584/2025	Self-declaration Others
DMTZ-CT102/114/101	Desmethylmirtazapine(MTZ) Rapid Test (Urine)	RPS/1223/2025	Self-declaration Others
DNND-CT102/114/101	N,N-Dimethyltryptamine(NND) Rapid Test (Urine)	RPS/1223/2025	Self-declaration Others
DNTZ-CT101/CT111/ CT102/CT114	Nitazene (NTZ) Rapid Test(Urine)	RPS/1780/2025	Self-declaration Others
DOA-125~1175/ DUA-125-1175	Multi-Drug X Drugs Rapid Test with/Without Adulteration(Urine)	RPS/1190/2025	Self-declaration Others
DOA-124~1204/ DUA-124~1204			
DOA-127~1227/ DUA-127~1227			
DOA-425~4175	Multi-drug Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DOA-H925~H9135	Multi-drug Rapid Test Cassette (Hair)	RPS/1220/2025	Self-declaration Others
DOP-102/114/101	Opiates (OPI) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DOP-802/803	Opiates (OPI) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DOX-102/114/101	Oxycodone (OXY) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DOX-402	OXY Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DOX-802/803	Oxycodone (OXY) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DOX-H902	Oxycodone (OXY) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DOZP-102/114/101	Olanzapine (OZP) Rapid Test Cassette （Urine）	RPS/1190/2025	Self-declaration Others
DPAP-102/114/101	Papaverine (PAP) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DPC-102/114/101	Phencyclidine (PCP) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DPC-402	PCP Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DPC-802/803	Phencyclidine (PCP) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DPC-H902	Phencyclidine (PCP) Rapid Test (Hair)	RPS/1222/2025	Self-declaration Others
DPG-102/114/101	Pregabalin (PGB) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DPG-CT802/803	Pregabalin (PGB) Rapid Test (Oral Fluid)	RPS/1159/2025	Self-declaration Others
DPP-102/114/101	Propoxyphene (PPX) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DPP-402	PPX Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DPRT-CT101/CT111/ CT102/CT114	Paroxetine (PRT) Rapid Test (Urine)	RPS/1780/2025	Self-declaration Others
DPY-CT102/114/101	Psilocybin (PY) Rapid Test (Urine)	RPS/1159/2025	Self-declaration Others
DQTP-102/114/101	Quetiapine(QTP) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DRPD-CT102/114/101	Risperidone(RPD) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DSC-CT102/114/101	Scopolamine (SCOP) Rapid Test (Urine)	RPS/1223/2025	Self-declaration Others
DSD-823~8123	Multi-Drug Rapid Test(Oral Fluid)	RPS/1215/2025	Self-declaration Others
DSD-825~895			
DSD-827~8167			
DSM-102/114/101	Synthetic Marijuana (K2) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DSM-402	K2 Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DSM-802/803	Synthetic Marijuana (K2) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DTAP-CT102/114/101	Tapentadol (TAP) Rapid Test (Urine)	RPS/1223/2025	Self-declaration Others
DTC-102/114/101	Tricyclic Antidepressants (TCA) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DTC-402	TCA Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DTH-102/114/101	Marijuana (THC) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DTH-402	THC Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DTH-P802/803	Marijuana (THC) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DTLD-102/114/101	Tilidine (TLD) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DTH-CTH902	THC Rapid Test Cassette (Hair)	RPS/1584/2025	Self-declaration Others
DTH-CTP802H	THC Rapid Test Cassette (Oral Fluid)	RPS/1780/2025	Self-declaration Others

DTM-102/114/101	Tramadol (TML) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DTM-402	TML Rapid Test (WB/S/P)	RPS/1220/2025	Self-declaration Others
DTM-802/803	Tramadol(TML) Rapid Test (Oral Fluid)	RPS/1215/2025	Self-declaration Others
DTRO-102/114/101	Tropicmide(TRO)Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DTZD-102/114/101	Trazodone(TZD) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DUR-102/114/101	UR-144 Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DXYL-CT102/114/101	Xylazine(XYL) Rapid Test (Urine)	RPS/1159/2025	Self-declaration Others
DZAL-102/114/101	Zaleplon(ZAL) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DZO-102/114/101	Zolpidem(ZOL) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
DZOP-102/114/101	Zopiclone(ZOP) Rapid Test (Urine)	RPS/1190/2025	Self-declaration Others
RTARPCI/RTARPACI RTARPBCI	Aripiprazole (ARP) Rapid Test (Urine)	RPS/2711/2025	Self-declaration Others
RTDIPCI/RTDIPACI/ RTDIPBCI	Diphenoxylate (DIP) Rapid Test (Urine)	RPS/2711/2025	Self-declaration Others
RTDXMCI/RTDXMACI/RTDXMBCI	Dextromethorphan (DXM) Rapid Test (Urine)	RPS/2711/2025	Self-declaration Others
RTNTZCI/RTNTZACI /RTNTZBCI	Nitazene (NTZ) Rapid Test (Urine)	RPS/2711/2025	Self-declaration Others

Multi-Drug X Drugs Rapid Test Cassette with/without Adulteration (Urine)

English

IVD

CITEST DIAGNOSTICS INC.
170-422 Richards Street
Vancouver BC, V6B 2Z4, Canada

EC REP
CMC MEDICAL DEVICES & DRUGS, S.L.
C/ Horacio Lengo Nº 18, CP 29006, Málaga-Spain

Instruction Sheet for testing of any combination of the following drugs:
ACE/AMP/BAR/BZO/BUP/COC/THC/MTD/MET/MDMA/MOP/MQL/OPI/PCP/PPX/TCA/TML/KET/OXY/COT/EDDP/FYL/K2/6-MAM/MDA/ETG/CLO/LSD/MPD/ZOL/MEP/MDPV/DIA/ZOP/MCAT/7-ACL/CAF/CFYL/CAT/TRO/ALP/PGB/ZAL/MPRD/CNB/GAB/TZD/CAR/ABP/QTP/FLX/UR-144/KRA/TLD/α-PVP/MES/PAP/CIT/FKET/OZP/RPD/TAP/NND/SCOP/MTZ/HMO/ALC
Including Specimen Validity Tests (S.V.T.) for:
Oxidants/PCC, Specific Gravity, pH, Nitrite, Glutaraldehyde, Creatinine and Bleach

A rapid test for the simultaneous, qualitative detection of multiple drugs and drug metabolites in human urine. For healthcare professionals including professionals at point of care sites. Immunoassay for in vitro diagnostic use only.

INTENDED USE

The Multi-Drug Rapid Test Cassette is a rapid chromatographic immunoassay for the qualitative detection of multiple drugs and drug metabolites in urine at the following cut-off concentrations:

Test	Calibrator	Cut-off (ng/mL)
Acetaminophen (ACE)	Acetaminophen	5,000
Amphetamine (AMP)	d-Amphetamine	1,000/500/300
Barbiturates (BAR)	Secobarbital	300/200
Benzodiazepines (BZO)	Oxazepam	500/300/200/100
Buprenorphine (BUP)	Buprenorphine	10/5
Cocaine (COC)	Benzoylecgonine	1,500/300/200/150/100
Marijuana (THC)	11-nor-Δ^9-THC-9 COOH	300/200/150/50/30/25/20
Methadone (MTD)	Methadone	300/200
Methamphetamine (MET)	d-Methamphetamine	1,000/500/300/200
Methylenedioxyme-thamphetamine(MDMA)	d,l-Methylenedioxymethamphetamine	1,000/500/300
Morphine/Opiate (MOP/OPI)	Morphine	300/200/100
Methaqualone (MQL)	Methaqualone	300
Meperidine (MPRD)	Normeperidine	100
Opiate (OPI)	Morphine	2,000/1,000
Phencyclidine (PCP)	Phencyclidine	50/25
Propoxyphene (PPX)	Propoxyphene	300
Tricyclic Antidepressants (TCA)	Nortriptyline	1,000/500/300
Tramadol (TML)	Cis-Tramadol	500/300/200/100
Ketamine (KET)	Ketamine	1,000/500/300/100
Oxycodone (OXY)	Oxycodone	300/100
Cotinine (COT)	Cotinine	500/300/200/100/50/10
2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine	300/100
Fentanyl (FYL)	Norfentanyl	20/10
Fentanyl (FYL)	Fentanyl	300/200/100
Synthetic Marijuana (K2)	JWH-018、JWH-073	50/30/25
6-Monoacetylmorphine (6-MAM)	6-MAM	10
(±) 3,4-Methylenedioxy-Amphetamine (MDA)	(±) 3,4-Methylenedioxy-Amphetamine	500
Ethyl- β-D-Glucuronide (ETG)	Ethyl- β -D-Glucuronide	1,500/1,000/500/300
Clonazepam (CLO)	Clonazepam	400/150
Lysergic Acid Diethylamide (LSD)	Lysergic Acid Diethylamide	50/20/10
Methylphenidate (MPD)	Methylphenidate	300/150
Methylphenidate (MPD)	Ritalin acid	1,000
Zolpidem (ZOL)	Zolpidem	50
Mephedrone (MEP)	Mephedrone	500/100
3, 4-methylenedioxy-pyrovalerone (MDPV)	3, 4-methylenedioxypyrovalerone	1,000/500/300
Diazepam (DIA)	Diazepam	300/200
Zopiclone (ZOP)	Zopiclone	300/50
Methcathinone (MCAT)	S(-)-Methcathinone	500
7-Aminoclonazepam (7-ACL)	7-Aminoclonazepam	300/200/100
Carfentanyl (CFYL)	Carfentanyl	500/250
Cannabinol (CNB)	Cannabinol	500
Caffeine (CAF)	Caffeine	1,000
Cathine (CAT)	(+)-Norpseudoephedrine	150
Tropicamide (TRO)	Tropicamide	350
Alprazolam (ALP)	Alprazolam	100
Pregabaline (PGB)	Pregabaline	50,000/500
Gabapentin (GAB)	Gabapentin	2,000
Zaleplon (ZAL)	Zaleplon	100
Carisoprodol (CAR)	Carisoprodol	2,000/1,000/500
AB-PINACA (ABP)	AB-PINACA	10
Quetiazepam (QTP)	Quetiazepam	1,000
Fluoxetine (FLX)	Fluoxetine	500
UR-144	UR-144 5-Pentanoic acid	25
Kratom (KRA)	Mitragynine	300
Tilidine (TLD)	Nortilidine	50
Trazodone (TZD)	Trazodone	200
Alpha-Pyrrolidinovalerophenone (α-PVP)	Alpha-Pyrrolidinovalerophenone	2,000/1,000/500/300
Mescaline (MES)	Mescaline	300/100
Papaverine (PAP)	Papaverine	500
Citalopram (CIT)	Citalopram	500
Fluoketamine (FKET)	Fluoketamine	1,000
Olanzapine (OZP)	Olanzapine	1,000
Risperidone (RPD)	Risperidone	150
Tapentadol (TAP)	Tapentadol	1,000
N,N-Dimethyltryptamine (NND)	N,N-Dimethyltryptamine	1,000
Scopolamine (SCOP)	Scopolamine	500
Mirtazapine (MTZ)	Desmethylmirtazapine	500
Hydromorphone (HMO)	Hydromorphone	500/300/250

Test	Calibrator	Cut-off
Alcohol(ALC)	Alcohol	0.02%

Configurations of the Multi-Drug Rapid Test Cassette come with any combination of the above listed drug analytes with or without S.V.T. This assay provides only a preliminary test result. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. Gas Chromatography/Mass Spectrometry (GC/MS) is the preferred confirmatory method. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are indicated.

SUMMARY OF ADULTERATION

Adulteration is the tampering of a urine specimen with the intention of altering the test results. The use of adulterants can cause false negative results in drug tests by either interfering with the screening test and/or destroying the drugs present in the urine. Dilution may also be employed in an attempt to produce false negative drug test results.

One of the best ways to test for adulteration or dilution is to determine certain urinary characteristics such as pH, specific gravity and creatinine and to detect the presence of oxidants/PCC, nitrites or glutaraldehyde in urine.

PRINCIPLE (FOR DOA TESTS EXCLUDING ALCOHOL)

During testing, a urine specimen migrates upward by capillary action. A drug, if present in the urine specimen below its cut-off concentration, will not saturate the binding sites of its specific antibody. The antibody will then react with the drug-protein conjugate and a visible colored line will show up in the test region of the specific drug dipstick. The presence of drug above the cut-off concentration will saturate all the binding sites of the antibody. Therefore, the colored line will not form in the test region.

A drug-positive urine specimen will not generate a colored line in the specific test region of the dipstick because of drug competition, while a drug-negative urine specimen will generate a line in the test region because of the absence of drug competition.

To serve as a procedural control, a colored line will always appear at the control region, indicating that proper volume of specimen has been added and membrane wicking has occurred.

PRINCIPLE OF ADULTERATION

Oxidants/PCC (Pyridiniumchlorochromate) tests for the presence of oxidizing agents such as bleach and hydrogen peroxide. Pyridiniumchlorochromate (sold under the brand name Urine Luck) is a commonly used adulterant.[2] Normal human urine should not contain oxidants of PCC.

Specific gravity tests for sample dilution. The normal range is from 1.003 to 1.030. Values outside this range may be the result of specimen dilution or adulteration.

PH tests for the presence of acidic or alkaline adulterants in urine. Normal pH levels should be in the range of 4.0 to 9.0. Values outside of this range may indicate the sample has been altered.

Nitrite tests for commonly used commercial adulterants such as Klear and Whizzies. They work by oxidizing the major cannabinoid metabolite THC-COOH.[3] Normal urine should contain no trace of nitrite. Positive results generally indicate the presence of an adulterant.

Glutaraldehyde tests for the presence of an aldehyde. Adulterants such as Urin Aid and Clear Choice contain glutaraldehyde which may cause false negative results by disrupting the enzyme used in some immunoassay tests.[3] Glutaraldehyde is not normally found in urine; therefore, detection of glutaraldehyde in a urine specimen is generally an indicator of adulteration.

Creatinine is a waste product of creatine; an amino-acid contained in muscle tissue and found in urine.[1] A person may attempt to foil a test by drinking excessive amounts of water or diuretics such as herbal teas to " flush" the system. Creatinine and specific gravity are two ways to check for dilution and flushing, which are the most common mechanisms used in an attempt to circumvent drug testing. Low Creatinine and specific gravity levels may indicate dilute urine. The absence of Creatinine (<5 mg/dL) is indicative of a specimen not consistent with human urine.

Bleach tests for the presence of bleach bleach refers to a number of chemicals which remove color, whiten or disinfect, often by oxidation, Bleaches are used as household chemicals to whiten clothes and remove stains and as disinfectants. Normal human urine should not contain bleach.

PRINCIPLE (FOR ALCOHOL)

The urine Alcohol Rapid Test Cassette consists of a plastic strip with a reaction pad attached at the tip. On contact with alcohol, the reaction pad will change colors depending on the concentration of alcohol present. This is based on the high specificity of alcohol oxidase for ethyl alcohol in the presence of peroxidase and enzyme substrate such as TMB.

REAGENTS(FOR DOA TESTS EXCLUDING ALCOHOL)

Each test line contains anti-drug mouse monoclonal antibody and corresponding drug-protein conjugates. The control line contains goat anti-rabbit IgG polyclonal antibodies and rabbit IgG.

REAGENTS (FOR ALCOHOL)

Tetramethylbenzidine, Alcohol Oxidase, Peroxidase

S.V.T REAGENTS

Adulteration Pad	Reactive indicator	Buffers and non-reactive ingredients
Creatinine	0.04%	99.96%
Nitrite	0.07%	99.93%
Bleach	0.39%	99.61%
Glutaraldehyde	0.02%	99.98%
pH	0.06%	99.94%
Specific Gravity	0.25%	99.75%
Oxidants / PCC	0.36%	99.64%

PRECAUTIONS

- For healthcare professionals including professionals at point of care sites.
- Immunoassay for *in vitro* diagnostic use only. The Test should remain in the sealed pouch until use.
- All specimens should be considered potentially hazardous and handled in the same manner as an infectious agent.
- The used test should be discarded according to local regulations.

STORAGE AND STABILITY

Store as packaged in the sealed pouch at 2-30℃. The test is stable through the expiration date printed on the sealed pouch. The Test must remain in the sealed pouch until use. **DO NOT FREEZE.** Do not use beyond the expiration date.

SPECIMEN COLLECTION AND PREPARATION

Urine Assay

The urine specimen should be collected in a clean and dry container. Urine collected at any time of the day may be used. Urine specimens exhibiting visible precipitates should be centrifuged, filtered, or allowed to settle to obtain a clear specimen for testing.

Specimen Storage

Urine specimens may be stored at 2-8℃ for up to 48 hours prior to testing. For prolonged storage, specimens may be frozen and stored below -20℃. Frozen specimens should be thawed and mixed well before testing. When testing cards with S.V.T. or Alcohol storage of urine specimens should not exceed 2 hours at room temperature or 4 hours refrigerated prior to testing.

MATERIALS

Materials Provided

- Test Cassettes
- Droppers
- Package Insert
- Adulteration Color Chart (when applicable)

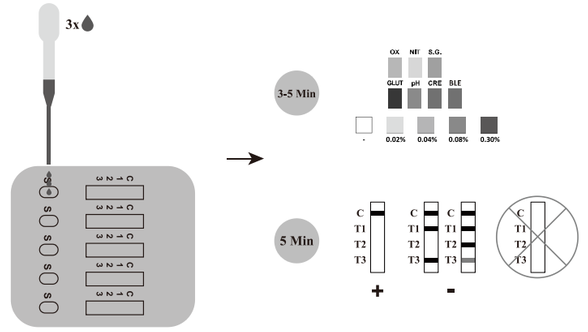
Materials Required But Not Provided

- Timer

DIRECTIONS FOR USE

Allow the test, urine specimen and/or controls to reach room temperature (15-30℃) prior to testing.

1. Bring the pouch to room temperature before opening it. Remove the test cassette from the sealed pouch and use it within one hour.
2. Place the test cassette on a clean and level surface. Hold the dropper vertically and transfer 3 full drops of urine to the specimen well (S) of the test cassette, and then start the timer. Avoid trapping air bubbles in the specimen well (S). See the illustration below.
3. Read the adulteration strips and alcohol strip between **3-5 minutes** according to color chart provided separately/on foil pouch. Refer to your Drug Free Policy for guidelines on adulterated specimens. We recommend not to interpret the drug test results and either retest the urine or collect another specimen in case of any positive result for any adulteration test.
4. The drug strip result should be read at **5 minutes**. Do not interpret the result after 10 minutes.



INTERPRETATION OF RESULTS

(Please refer to the illustration above)

NEGATIVE:* A colored line appears in the control region (C) and colored line appears in the test region (T). This negative result means that the concentrations in the urine sample are below the designated cut-off levels for a particular drug tested.

***NOTE:** The shade of the colored lines(s) in the test region (T) may vary. The result should be considered negative whenever there is even a faint line.

POSITIVE: A colored line appears in the control region (C) and no line appears in the test region (T). The positive result means that the drug concentration in the urine sample is greater than the designated cut-off for a specific drug.

INVALID: No line appears in the control region (C). Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Read the directions again and repeat the test with a new test. If the result is still invalid, contact your manufacturer.

INTERPRETATION OF RESULTS (S.V.T/ ADULTERATION)

(Please refer to the color chart)

Semi-Quantitative results are obtained by visually comparing the reacted color blocks on the strip to the printed color blocks on the color chart. No instrumentation is required.

INTERPRETATION OF RESULTS (ALCOHOL STRIP)

Negative: Almost no color change by comparing with the background. The negative result indicates that the urine alcohol level is less than 0.02%.

Positive: A distinct color developed all over the pad. The positive result indicates that the urine alcohol concentration is 0.02% or higher.

Invalid: The test should be considered invalid If only the edge of the reactive pad turned color that might be ascribed to insufficient sampling. The subject should be re-tested. Besides, if the color pad has a blue color before applying urine sample, do not use the test.

QUALITY CONTROL

A procedural control is included in the test. A line appearing in the control region (C) is considered an internal procedural control. It confirms sufficient specimen volume, adequate membrane wicking and correct procedural technique.

Control standards are not supplied with this kit. However, it is recommended that positive and negative controls be tested as good laboratory practice to confirm the test procedure and to verify proper test performance.

LIMITATIONS

1. The Multi-Drug Rapid Test Cassette provides only a qualitative, preliminary analytical result. A secondary analytical method must be used to obtain a confirmed result. Gas Chromatography /Mass Spectrometry (GC/MS) is the preferred confirmatory method.[4,5]
2. There is a possibility that technical or procedural errors, as well as interfering substances in the urine specimen may cause erroneous results.
3. Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. If adulteration is suspected, the test should be repeated with another urine specimen.
4. A positive result does not indicate level or intoxication, administration route or concentration in urine.
5. A negative result may not necessarily indicate drug-free urine. Negative results can be obtained when drug is present but below the cut-off level of the test.
6. This test does not distinguish between drugs of abuse and certain medications.
7. A positive test result may be obtained from certain foods or food supplements.

S.V.T/ ADULTERATION LIMITATIONS

1. The adulteration tests included with the product are meant to aid in the determination of abnormal specimens. While comprehensive, these tests are not meant to be an "all-inclusive" representation of possible adulterants.
2. **Oxidants/PCC**: Normal human urine should not contain oxidants or PCC. The presence of high levels of antioxidants in the specimen, such as ascorbic acid, may result in false negative results for the oxidants/PCC pad.
3. **Specific Gravity:** Elevated levels of protein in urine may cause abnormally high specific gravity values.
4. **Nitrite**: Nitrite is not a normal component of human urine. However, nitrite found in urine may indicate urinary tract infections or bacterial infections. Nitrite levels of >20 mg/dL may produce false positive glutaraldehyde results.
5. **Glutaraldehyde**: is not normally found in urine. However certain metabolic abnormalities such as ketoacidosis (fasting, uncontrolled diabetes or high protein diets) may interfere with the test results.
6. **Creatinine**: Normal Creatinine levels are between 20 and 350 mg/dL. Under rare conditions, certain kidney diseases may show dilute urine.
7. **Bleach**: Normal human urine should not contain bleach. The presence of high levels of bleach in the specimen may result in false negative results for the bleach pad.
8. **pH:** Normal PH levels are between 4.0 and 9.0.

PERFORMANCE CHARACTERISTICS

Accuracy

% Agreement with GC/MS

	ACE 5,000	AMP 1,000	AMP 500	AMP 300	BAR 300	BAR 200	BZO 500	BZO 300	BZO 200	BZO 100	BUP 10
Positive Agreement	93.5%	98.1%	99.1%	99.1%	96.1%	95.3%	98.2%	98.4%	99.2%	99.2%	99.1%
Negative Agreement	98.6%	97.9%	98.6%	98.5%	98.6%	97.9%	97.8%	99.2%	98.4%	97.5%	>99.9%
Total Results	97.0%	98.0%	98.8%	98.8%	97.6%	96.8%	98.0%	98.8%	98.8%	98.4%	99.6%

	BUP 5	COC 300	COC 200	COC 150	COC 100	THC 300	THC 150	THC 50	THC 25	THC 20	MTD 300
Positive Agreement	99.1%	98.2%	>99.9%	98.3%	99.2%	95.5%	94.5%	97.9%	96.9%	94.8%	98.9%
Negative Agreement	>99.9%	97.8%	>99.9%	97.0%	97.0%	98.1%	97.5%	98.1%	97.4%	99.3%	98.8%
Total Results	99.6%	98.0%	100.0%	97.6%	98.0%	97.2%	96.4%	98.0%	97.2%	97.6%	98.8%

	MTD 200	MET 1,000	MET 500	MET 300	MDMA 1,000	MDMA 500	MDMA 300	MOP/ OPI 300	MOP/ OPI 100	MQL 300	OPI 2,000
Positive Agreement	98.9%	96.2%	97.6%	97.8%	98.0%	98.1%	98.1%	95.0%	97.0%	89.8%	96.7%
Negative Agreement	98.7%	97.1%	97.0%	97.5%	99.3%	99.3%	99.3%	95.3%	96.6%	93.2%	93.8%
Total Results	98.8%	96.8%	97.2%	97.6%	98.8%	98.8%	98.8%	95.2%	96.8%	92.0%	95.2%

	PCP 25	PPX 300	TCA 1,000	TCA 500	TML 100	TML 200	TML 300	KET 1,000	KET 500	KET 300	KET 100
Positive Agreement	92.4%	96.0%	94.8%	94.9%	88.2%	88.2%	88.0%	97.5%	97.6%	96.7%	96.0%
Negative Agreement	96.8%	94.0%	91.6%	92.1%	92.4%	96.2%	96.2%	98.2%	98.2%	97.5%	97.3%
Total Results	95.2%	94.8%	92.8%	93.2%	90.8%	93.2%	93.2%	98.0%	98.0%	97.2%	96.8%

	OXY 100	OXY 300	COT 500	COT 200	COT 100	COT 50	COT 10	EDDP 300	EDDP 100	FYL 20	FYL 10
Positive Agreement	97.7%	96.5%	95.7%	96.7%	97.9%	96.7%	97.8%	97.9%	96.9%	98.8%	98.8%
Negative Agreement	99.4%	99.4%	96.1%	97.5%	98.1%	97.5%	98.1%	99.4%	96.7%	99.4%	99.4%
Total Results	98.8%	98.4%	96.0%	97.2%	98.0%	97.2%	98.0%	98.8%	96.8%	99.2%	99.2%

	K2 50	K2 30	6-MAM 10	MDA 500	ETG 500	ETG 1,000	CLO 400	CLO 150	LSD 10	LSD 20	LSD 50
Positive Agreement	97.5%	97.6%	97.7%	98.1%	97.6%	95.3%	97.1%	99.0%	94.3%	94.3%	94.1%
Negative Agreement	98.2%	98.8%	98.1%	97.9%	99.4%	99.4%	99.3%	98.6%	98.5%	98.5%	98.5%
Total Results	98.0%	98.4%	98.0%	98.0%	98.8%	98.0%	98.4%	98.8%	97.0%	97.0%	97.0%

	MPD 300	MPD 1,000	ZOL 50	DIA 300	DIA 200	ZOP 50	MCAT 500	7-ACL 300	7-ACL 200	7-ACL 100	CFYL 500
Positive Agreement	94.6%	94.6%	90.9%	98.4%	98.4%	86.4%	90.9%	94.1%	94.6%	94.7%	94.7%
Negative Agreement	98.4%	98.4%	97.1%	99.2%	99.2%	97.2%	95.0%	97.7%	97.6%	97.5%	98.6%
Total Results	97.0%	97.0%	95.6%	98.8%	98.8%	94.6%	94.1%	96.2%	96.2%	96.2%	97.3%

	CAF 1,000	CAT 150	TRO 350	MDPV 1,000	MDPV 500	MEP 100	ALP 100	ABP 10	α-PVP 1,000	CNB 500	MPRD 100
Positive Agreement	91.3%	90.5%	92.0%	93.3%	93.1%	90.5%	90.9%	92.0%	92.1%	95.8%	95.0%
Negative Agreement	95.7%	97.3%	97.0%	98.6%	98.3%	97.0%	97.4%	97.1%	96.8%	97.6%	94.2%
Total Results	94.6%	95.8%	95.6%	97.0%	96.6%	95.4%	95.9%	95.8%	95.0%	96.9%	94.4%

	PGB 50,000	TZD 200	UR-144-25	ZAL 100	MES 100	GAB 2,000	MOP/ OPI 200	ETG 300	α-PVP 500	TLD 50	QTP 1,000

Multi-Drug X(2-17) Drugs Rapid Test Cassette with/without Adulteration (Urine)

English

IVD

CITEST DIAGNOSTICS INC.
170-422 Richards Street
Vancouver BC, V6B 2Z4, Canada

EC REP
CMC MEDICAL DEVICES & DRUGS, S.L.
C/ Horacio Lengo Nº 18, CP 29006, Málaga-Spain

Positive Agreement	90.9%	92.9%	97.1%	95.2%	95.8%	92.3%	95.0%	98.8%	91.9%	97.3%	97.1%
Negative Agreement	97.3%	96.1%	98.4%	97.4%	97.6%	98.5%	96.0%	99.4%	95.2%	98.3%	98.3%
Total Results	95.9%	95.2%	98.0%	96.7%	96.9%	96.7%	95.6%	99.2%	94.0%	97.9%	97.9%

	PAP 500	KRA 300	CAR 2,000	FLX 500	K2 25	CIT 500	FKET 1,000	RPD 150	FYL 100	FYL 200	CFYL 250
Positive Agreement	96.9%	95.7%	95.0%	97.1%	97.6%	93.3%	96.7%	93.3%	98.8%	97.5%	94.7%
Negative Agreement	98.0%	98.3%	94.2%	96.6%	98.2%	95.5%	97.0%	95.5%	99.4%	99.4%	98.6%
Total Results	97.6%	97.6%	94.4%	96.8%	98.0%	94.8%	96.9%	94.8%	99.2%	98.8%	97.3%

	PGB 500	MES 300	OZP 1,000	MDPV 300	α-PVP 2,000	α-PVP 300	TAP 1,000	NND 1,000	SCOP 500	MTZ 500
Positive Agreement	95.2%	95.8%	95.8%	93.8%	86.8%	92.1%	94.4%	96.7%	93.5%	93.3%
Negative Agreement	96.3%	97.6%	97.6%	97.1%	96.8%	95.2%	98.2%	97.0%	98.6%	95.6%
Total Results	96.0%	96.9%	96.9%	96.1%	93.0%	94.0%	96.7%	96.9%	97.0%	94.9%

	COT 300	THC 200	THC 30	MEP 500	MPD 150	OPI 1,000	PCP 50	TML 500	TCA 300	CAR 1,000	FYL 300
Positive Agreement	97.7%	93.4%	97.9%	95.2%	91.9%	95.9%	92.3%	92.9%	94.9%	90.0%	97.0%
Negative Agreement	97.5%	97.5%	98.1%	98.5%	98.4%	93.8%	96.9%	98.1%	92.1%	98.1%	98.9%
Total Results	97.6%	96.0%	98.0%	97.7%	96.0%	94.8%	95.2%	96.9%	93.2%	95.8%	98.6%

	HMO 250	HMO 300	HMO 500	MET 200	CAR 500	COC 1,500	ETG 1,500	ZOP 300
Positive Agreement	93.8%	91.7%	91.7%	97.6%	90.0%	92.0%	97.7%	90.9%
Negative Agreement	97.5%	98.7%	98.7%	97.0%	92.3%	98.3%	99.4%	97.2%
Total Results	96.1%	96.1%	96.1%	97.2%	91.7%	95.2%	98.8%	95.7%

% Agreement with Commercial Kit

	ACE 5,000	AMP 1,000/ 500/ 300	BAR 300/ 200	BZO 500/ 300/ 200/ 100	BUP 10/5	COC 300/ 100	COC 1,500/ 200/ 150	THC 150/50/2 5	THC 300/ 200/30/2 0	MPD 1,000/ 300/ 150
Positive Agreement	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	*	>99.9%	*	*
Negative Agreement	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	*	>99.9%	*	*
Total Results	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	*	>99.9%	*	*

	7-ACL 300/ 200/ 100	MTD 300/ 200	MET 1,000/ 500/ 300	MET 200	MDMA 1,000/ 500	MDMA 300	MOP/ OPI 300/ 200/ 100	MQL 300	MEP 500/ 100	LSD 50/20/ 10
Positive Agreement	*	>99.9%	>99.9%	*	>99.9%	*	>99.9%	>99.9%	*	*
Negative Agreement	*	>99.9%	>99.9%	*	>99.9%	*	>99.9%	>99.9%	*	*
Total Results	*	>99.9%	>99.9%	*	>99.9%	*	>99.9%	>99.9%	*	*

	PPX 300	TCA 1,000/ 500/ 300	TML 500/ 300/ 200/ 100	KET 1,000/ 500/ 300/ 100	COT 500/ 300/ 200/ 100/50/1 0	OPI 2,000/ 1,000	PCP 50	PCP 25	DIA 300/ 200	MDPV 1,000/ 500/ 300
Positive Agreement	>99.9%	*	*	>99.9%	*	*	*	>99.9%	*	*
Negative Agreement	>99.9%	*	*	>99.9%	*	*	*	>99.9%	*	*
Total Results	>99.9%	*	*	>99.9%	*	*	*	>99.9%	*	*

	OXY 300/ 100	EDDP 300/ 100	FYL 300/ 200/ 100/20/ 10	K2-50/ 30/25	6-MAM 10	MDA 500	ETG 1,500/1, 000/ 500/ 300	CLO 400/ 150	ZOL 50	ZOP 300/50	MCAT 500
Positive Agreement	*	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*	*

	CFYL 500/	CAF 1,000	CAT 150	TRO 350	ALP 100	PGB 50,000/5	ABP 10	CNB 500	TZD 200	GAB 2,000

	250					00				
Positive Agreement	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*

	CAR 2,000/ 1,000/ 500	MPRD 100	QTP 1,000	FLX 500	UR-144 25	KRA 300	TLD 50	α-PVP 2,000/ 1,000/ 500/ 300	MES 100/ 300	ZAL 100
Positive Agreement	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*

	CIT 500	FKET 1,000	RPD 150	TAP 1,000	NND 1,000	SCOP 500	MTZ 500	OZP 1,000	PAP 500	HMO 500/ 300/ 250
Positive Agreement	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*

*Note: Based on GC/MS data instead of Commercial Kit.

Precision

A study was conducted at three hospitals using three different lots of product to demonstrate the within run, between run and between operator precision. An identical card of coded specimens, containing drugs at concentrations of negative, 50% and 25% cut-off level, was labeled, blinded and tested at each site. **The results gained ≧75% accuracy in ±25% cut-off level specimen and 100% accuracy in negative and ±50% cut-off level specimen.**

Analytical Sensitivity

A drug-free urine pool was spiked with drugs at the listed concentrations. The results are summarized below.

Drug Concentration Cut-off Range	ACE 5,000		AMP 1,000		AMP 500		AMP 300		BAR 300		BAR 200		BZO 500		BZO 300	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	26	4	26	4	25	5	27	3	27	3	26	4	27	3	27	3
Cut-off	14	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15
+25% Cut-off	3	27	3	27	3	27	4	26	4	26	3	27	4	26	3	27
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	BZO 200		BZO 100		BUP 10		BUP 5		COC 1,500		COC 300		COC 200		COC 150		COC 100	
	-	+	-	+	-	+	-	+			-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	27	3	26	4	26	4	25	5	26	4	26	4	27	3	27	3
Cut-off	16	14	14	16	14	16	14	16	15	15	13	17	14	16	16	14	16	14
+25% Cut-off	3	27	3	27	3	27	3	27	3	27	3	27	3	27	4	26	4	26
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	THC 150		THC 50		THC 25		MTD 300		MTD 200		MET 1,000		MET 500		MET 300		MET 200	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	26	4	27	3	27	3	27	3	27	3	27	3	27	3	27	3
Cut-off	15	15	14	16	15	15	13	17	15	15	16	14	15	15	16	14	15	15
+25% Cut-off	4	26	3	27	4	26	4	26	4	26	3	27	4	26	3	27	4	26
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	MDMA 1,000		MDMA 500		MOP/ OPI 300		MOP/ OPI 100		OPI 2,000		PCP 50		PCP 25		PPX 300	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	26	4	25	5	26	4	26	4	27	3	26	4	25	5	26	4
Cut-off	15	15	14	16	15	15	15	15	15	15	15	15	15	15	14	16
+25% Cut-off	5	25	4	26	3	27	3	27	5	25	3	27	3	27	3	27
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	TML 100		TML 200		TML 300		TML 500		KET 1,000		KET 500		KET 300		KET 100		MQL 300	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	27	3	27	3	26	4	27	3	27	3	26	4	27	3	27	3

Drug Concentration Cut-off Range	K2 50		K2 30		6-MAM 10		MDA 500		ETG 300		ETG 500		ETG 1,000		CLO 400		CLO 150		LSD 20	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	26	4	27	3	27	3	26	4	25	5	26	4	26	4	26	4	26	4	27	3
Cut-off	15	15	16	14	15	15	15	15	16	14	15	15	15	15	14	16	14	16	14	16
+25% Cut-off	3	27	4	26	4	26	3	27	4	26	3	27	3	27	5	25	5	25	3	27
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	LSD 50		ZOL 50		MDMA 300		THC 200		MOP/ OPI 200		MEP 500		MEP 100		MDPV 1,000		ETG 1,500	
		+		+	-	+	-	+	-	+	-	+	-	+	-	+		
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	26	4	25	5	26	4	26	4	27	3	27	3	26	4	27	3
Cut-off	14	16	14	16	15	15	15	15	15	15	15	15	17	13	14	16	15	15
+25% Cut-off	3	27	5	25	3	27	4	26	4	26	4	26	5	25	3	27	3	27
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	MDPV 500		MDPV 300		DIA 300		DIA 200		THC 300		THC 30		K2 25		ZOP 300		ZOP 50		MCAT 500	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	29	1	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	25	5	26	4	27	3	27	3	26	4	26	4	25	5	28	2	27	3	28	2
Cut-off	15	15	14	16	15	15	15	15	15	15	14	16	14	16	17	13	17	13	17	13
+25% Cut-off	3	27	3	27	3	27	3	27	4	26	4	26	3	27	3	27	4	26	3	27
+50% Cut-off	0	30	0	30	0	30	1	29	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	7-ACL 300		7-ACL 200		7-ACL 100		CFYL 500		CAF 1,000		CAT 150		TRO 350		ALP 100		α-PVP 1,000	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	26	4	27	3	27	3	25	5	26	4	27	3	27	3	28	2	26	4
Cut-off	14	16	14	16	13	17	14	16	17	13	17	13	15	15	17	13	15	15
+25% Cut-off	5	25	3	27	4	26	6	24	6	24	4	26	3	27	3	27	3	27
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	FYL 100		COT 300		TCA 1,000		TCA 500		TCA 300		OPI 1,000		THC 20		CAR 2,000		CAR 1,000		CAR 500	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	25	5	25	5	26	4	27	3	27	3	26	4	28	2	27	3	27	3
Cut-off	15	15	15	15	15	15	14	16	14	16	14	16	14	16	16	14	16	14	15	15
+25% Cut-off	3	27	4	26	4	26	3	27	3	27	4	26	4	26	3	27	4	26	4	26
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	MPD 150		MPD 300		MPD 1,000		PGB 50,000		PGB 500		GAB 2,000		TZD 200		CNB 500		PAP 500	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	26	4	27	3	26	4	25	5	25	5	28	2	28	2	27	3	29	1
Cut-off	15	15	16	14	16	14	15	15	15	15	14	16	14	16	14	16	15	15
+25% Cut-off	5	25	5	25	5	25	5	25	6	24	3	27	3	27	4	26	1	29
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	ABP 10		QTP 1,000		FLX 500		KRA 300		TLD 50		α-PVP 2,000		α-PVP 500		α-PVP 300		LSD 10		HMO 500	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0

Drug Concentration Cut-off Range	COT 500		COT 50		COT 10		CFYL 250		FYL 200		ZAL 100		MPRD 100		TAP 1,000		CIT 500		FKET 1,000		FYL 300	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	26	4	27	3	27	3	25	5	27	3	27	3	27	3	27	3	27	3	27	3	27	3
Cut-off	14	16	16	14	15	15	14	16	15	15	15	15	15	15	15	15	15	15	15	17	13	
+25% Cut-off	3	27	4	26	4	26	6	24	3	27	4	26	2	28	4	26	4	26	3	27	4	26
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	RPD 150		SCOP 500		NND 1,000		MTZ 500		OZP 1,000		MES 300		MES 100		UR-144 25		HMO 250		HMO 300	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	26	4	27	3	27	3	27	3	27	3	28	2	28	2	28	2	28	2
Cut-off	15	15	14	16	15	15	15	15	14	16	14	16	14	16	15	15	15	15	15	15
+25% Cut-off	4	26	3	27	4	26	4	26	5	25	4	26	3	27	3	27	2	28		
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30		
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30		

Analytical Specificity

The following table lists the concentrations of compounds (ng/mL) that are detected as positive in urine by the Multi-Drug Rapid Test at 5 minutes.

Analytes	conc. (ng/mL)	Analytes	conc. (ng/mL)
ACETAMINOPHEN (ACE 5,000)			
Acetaminophen	5,000		
AMPHETAMINE (AMP 1,000)			
D,L-Amphetamine sulfate	300	Phentermine	1,000
L-Amphetamine	25,000	Maprotiline	50,000
(±) 3,4-Methylenedioxy amphetamine	500	Methoxyphenamine	6,000
		D-Amphetamine	1,000
AMPHETAMINE (AMP 500)			
D,L-Amphetamine sulfate	150	Phentermine	500
L-Amphetamine	12,500	Maprotiline	25,000
(±) 3,4-Methylenedioxy amphetamine	250	Methoxyphenamine	3,000
		D-Amphetamine	500
AMPHETAMINE (AMP 300)			
D,L-Amphetamine sulfate	75	Phentermine	300
L-Amphetamine	10,000	Maprotiline	15,000
(±) 3,4-Methylenedioxy amphetamine	150	Methoxyphenamine	2,000
		D-Amphetamine	300
BARBITURATES (BAR 300)			
Amobarbital	5,000	Alphenol	600
5,5-Diphenylhydantoin	8,000	Aprobarbital	500
Allobarbital	600	Butabarbital	200
Barbital	8,000	Butalbital	8,000
Talbutal	200	Butethal	500
Cyclopentobarbital	30,000	Phenobarbital	300
Pentobarbital	8,000	Secobarbital	300
BARBITURATES (BAR 200)			
Amobarbital	3,000	Alphenol	400
5,5-Diphenylhydantoin	5,000	Aprobarbital	300
Allobarbital	400	Butabarbital	150
Barbital	5,000	Butalbital	5,000
Talbutal	150	Butethal	300
Cyclopentobarbital	20,000	Phenobarbital	200
Pentobarbital	5,000	Secobarbital	200
BENZODIAZEPINES (BZO 500)			
Alprazolam	200	Bromazepam	1,500
a-hydroxyalprazolam	2,500	Chlordiazepoxide	1,500
Clobazam	300	Nitrazepam	300
Clonazepam	800	Norchlordiazepoxide	200
Clorazepatedipotassium	800	Nordiazepam	1,500
Delorazepam	1,500	Oxazepam	500
Desalkylflurazepam	300	Temazepam	300
Flunitrazepam	300	Diazepam	500
(±) Lorazepam	5,000	Estazolam	10,000
RS-Lorazepamglucuronide	300	Triazolam	5,000
Midazolam	10,000		
BENZODIAZEPINES (BZO 300)			
Alprazolam	100	Bromazepam	900
a-hydroxyalprazolam	1,500	Chlordiazepoxide	900
Clobazam	200	Nitrazepam	200
Clonazepam	500	Norchlordiazepoxide	100
Clorazepatedipotassium	500	Nordiazepam	900
Delorazepam	900	Oxazepam	300
Desalkylflurazepam	200	Temazepam	100

Multi-Drug X(2-17) Drugs Rapid Test Cassette with/without Adulteration (Urine)

English

IVD

CITEST DIAGNOSTICS INC.
170-422 Richards Street
Vancouver BC, V6B 2Z4, Canada

EC REP
CMC MEDICAL DEVICES & DRUGS, S.L.
C/ Horacio Lengo Nº 18, CP 29006, Málaga-Spain

Flunitrazepam	200	Diazepam	300
(±) Lorazepam	3,000	Estazolam	6,000
RS-Lorazepamglucuronide	200	Triazolam	3,000
Midazolam	6,000		
BENZODIAZEPINES (BZO 200)			
Alprazolam	70	Bromazepam	600
a-hydroxyalprazolam	1,000	Chlordiazepoxide	600
Clobazam	120	Nitrazepam	120
Clonazepam	300	Norchlordiazepoxide	70
Clorazepatedipotassium	300	Nordiazepam	600
Delorazepam	600	Oxazepam	200
Desalkylflurazepam	120	Temazepam	70
Flunitrazepam	120	Diazepam	200
(±) Lorazepam	2,000	Estazolam	4,000
RS-Lorazepamglucuronide	120	Triazolam	2,000
Midazolam	4,000		
BENZODIAZEPINES (BZO 100)			
Alprazolam	40	Bromazepam	300
a-hydroxyalprazolam	500	Chlordiazepoxide	300
Clobazam	60	Nitrazepam	60
Clonazepam	150	Norchlordiazepoxide	40
Clorazepatedipotassium	150	Nordiazepam	300
Delorazepam	300	Oxazepam	100
Desalkylflurazepam	60	Temazepam	40
Flunitrazepam	60	Diazepam	100
(±) Lorazepam	1,000	Estazolam	2,000
RS-Lorazepamglucuronide	60	Triazolam	1,000
Midazolam	2,000		
BUPRENORPHINE (BUP 10)			
Buprenorphine	10	Norbuprenorphine	50
Buprenorphine 3-D-Glucuronide	50	Norbuprenorphine 3-D-Glucuronide	100
BUPRENORPHINE (BUP 5)			
Buprenorphine	5	Norbuprenorphine	25
Buprenorphine 3-D-Glucuronide	25	Norbuprenorphine 3-D-Glucuronide	50
COCAINE (COC 1,500)			
Benzoylecgonine	1,500	Cocaethylene	100,000
Cocaine HCl	1200	Ecgonine	150,000
COCAINE (COC 300)			
Benzoylecgonine	300	Cocaethylene	20,000
Cocaine HCl	200	Ecgonine	30,000
COCAINE (COC 200)			
Benzoylecgonine	200	Cocaethylene	13,500
Cocaine HCl	135	Ecgonine	20,000
COCAINE (COC 150)			
Benzoylecgonine	150	Cocaethylene	1,0000
Cocaine HCl	120	Ecgonine	15,000
COCAINE (COC 100)			
Benzoylecgonine	100	Cocaethylene	7,000
Cocaine HCl	80	Ecgonine	10,000
MARIJUANA (THC 300)			
Cannabinol	200,000	Δ^8-THC	100,000
11-nor-Δ^8-THC-9 COOH	200	Δ^9-THC	100,000
11-nor-Δ^9-THC-9 COOH	300		
MARIJUANA (THC 200)			
Cannabinol	140,000	Δ^8-THC	68,000
11-nor-Δ^8-THC-9 COOH	120	Δ^9-THC	68,000
11-nor-Δ^9-THC-9 COOH	200		
MARIJUANA (THC 150)			
Cannabinol	100,000	Δ^8-THC	50,000
11-nor-Δ^8-THC-9 COOH	100	Δ^9-THC	50,000
11-nor-Δ^9-THC-9 COOH	150		
MARIJUANA (THC 50)			
Cannabinol	35,000	Δ^8-THC	17,000
11-nor-Δ^8-THC-9 COOH	30	Δ^9-THC	17,000
11-nor-Δ^9-THC-9 COOH	50		
MARIJUANA (THC 30)			
Cannabinol	20,000	Δ^8-THC	10,000
11-nor-Δ^8-THC-9 COOH	20	Δ^9-THC	10,000
11-nor-Δ^9-THC-9 COOH	30		
MARIJUANA (THC 25)			
Cannabinol	17,500	Δ^8-THC	8,500
11-nor-Δ^8-THC-9 COOH	15	Δ^9-THC	8,500
11-nor-Δ^9-THC-9 COOH	25		
MARIJUANA (THC 20)			
Cannabinol	14,000	Δ^8-THC	6,800
11-nor-Δ^8-THC-9 COOH	12	Δ^9-THC	6,800
11-nor-Δ^9-THC-9 COOH	20		
METHADONE (MTD 300)			
Methadone	300	Doxylamine	100,000
METHADONE (MTD 200)			
Methadone	200	Doxylamine	65,000
METHAMPHETAMINE (MET 1, 000)			
ρ-Hydroxymethamphetamine	25,000	(±)-3,4-Methylenedioxy-methamphetamine	12,500
D-Methamphetamine	1,000		
L-Methamphetamine	20,000	Mephentermine	50,000

METHAMPHETAMINE (MET 500)			
ρ-Hydroxymethamphetamine	12,500	(±)-3,4-Methylenedioxy-methamphetamine	6,250
D-Methamphetamine	500		
L-Methamphetamine	10,000	Mephentermine	25,000
METHAMPHETAMINE (MET 300)			
ρ-Hydroxymethamphetamine	7,500	(±)-3,4-Methylenedioxy-methamphetamine	3,750
D-Methamphetamine	300		
L-Methamphetamine	6,000	Mephentermine	15,000
METHAMPHETAMINE (MET 200)			
ρ-Hydroxymethamphetamine	5,000	(±)-3,4-Methylenedioxy-methamphetamine	2,500
D-Methamphetamine	200		
L-Methamphetamine	4,000	Mephentermine	10,000
METHYLENEDIOXYMETHAMPHETAMINE (MDMA 1, 000) Ecstasy			
(±) 3,4-Methylenedioxy-methamphetamine HCl	1,000	3,4-Methylenedioxyethyl-amphetamine	600
(±) 3,4-Methylenedioxyamphetamine HCl	6,000		
METHYLENEDIOXYMETHAMPHETAMINE (MDMA 500) Ecstasy			
(±) 3,4-Methylenedioxy-methamphetamine HCl	500	3,4-Methylenedioxyethyl-amphetamine	300
(±) 3,4-Methylenedioxyamphetamine HCl	3,000		
METHYLENEDIOXYMETHAMPHETAMINE (MDMA 300) Ecstasy			
(±) 3,4-Methylenedioxy-methamphetamine HCl	300	3,4-Methylenedioxyethyl-amphetamine	180
(±) 3,4-Methylenedioxyamphetamine HCl	1,800		
MORPHINE (MOP/OPI 300)			
Codeine	200	Norcodeine	6,000
Levorphanol	1,500	Normorphone	50,000
Morphine-3-β-D-Glucuronide	800	Oxycodone	30,000
Ethylmorphine	6,000	Oxymorphone	50,000
Hydrocodone	50,000	Procaine	15,000
Hydromorphone	3,000	Thebaine	6,000
6-Monoacethylmorphine	300	Morphine	300
MORPHINE (MOP/OPI 200)			
Codeine	160	Norcodeine	4,000
Levorphanol	1,000	Normorphone	40,000
Morphine-3-β-D-Glucuronide	600	Oxycodone	20,000
Ethylmorphine	4,000	Oxymorphone	40,000
Hydrocodone	40,000	Procaine	10,000
Hydromorphone	2,000	Thebaine	4,000
6-Monoacethylmorphine	200	Morphine	200
MORPHINE (MOP/OPI 100)			
Codeine	80	Norcodeine	2,000
Levorphanol	500	Normorphone	20,000
Morphine-3-β-D-Glucuronide	300	Oxycodone	10,000
Ethylmorphine	2,000	Oxymorphone	20,000
Hydrocodone	20,000	Procaine	5,000
Hydromorphone	1,000	Thebaine	2,000
6-Monoacethylmorphine	200	Morphine	100
METHAQUALONE (MQL 300)			
Methaqualone	300		
MORPHINE/OPIATE (OPI 2,000)			
Codeine	2,000	Morphine	2,000
Ethylmorphine	3,000	Norcodeine	25,000
Hydrocodone	50,000	Normorphone	50,000
Hydromorphone	15,000	Oxycodone	25,000
Levorphanol	25,000	Oxymorphone	25,000
6-Monoacetylmorphine	3,000	Procaine	50,000
Morphine 3-β-D-glucuronide	2,000	Thebaine	25,000
MORPHINE/OPIATE (OPI 1,000)			
Codeine	1,000	Morphine	1,000
Ethylmorphine	1,500	Norcodeine	12,500
Hydrocodone	25,000	Normorphone	25,000
Hydromorphone	7,500	Oxycodone	12,500
Levorphanol	12,500	Oxymorphone	12,500
6-Monoacetylmorphine	1,500	Procaine	25,000
Morphine 3-β-D-glucuronide	1,000	Thebaine	12,500
MEPERIDINE (MPRD 100)			
Normeperidine	100	Meperidine	100
PHENCYCLIDINE (PCP 50)			
Phencyclidine	50	4-Hydroxyphencyclidine	25,000
PHENCYCLIDINE (PCP 25)			
Phencyclidine	25	4-Hydroxyphencyclidine	12,500
PROPOXYPHENE (PPX 300)			
D-Propoxyphene	300	**D-Norpropoxyphene**	300
TRICYCLIC ANTIDEPRESSANTS (TCA 1,000)			
Nortriptyline	1,000	Imipramine	400
Nordoxepine	500	Clomipramine	50,000
Trimipramine	3,000	Doxepine	2,000
Amitriptyline	1,500	Maprotiline	2,000
Promazine	3,000	Promethazine	50,000
Desipramine	200	Perphenazine	50,000
Cyclobenzaprine	2,000	Dithiaden	10,000
TRICYCLIC ANTIDEPRESSANTS (TCA 500)			
Nortriptyline	500	Imipramine	200

Nordoxepine	250	Clomipramine	25,000
Trimipramine	1,500	Doxepine	1,000
Amitriptyline	750	Maprotiline	1,000
Promazine	1,500	Promethazine	25,000
Desipramine	100	Perphenazine	25,000
Cyclobenzaprine	1,000	Dithiaden	5,000
TRICYCLIC ANTIDEPRESSANTS (TCA 300)			
Nortriptyline	300	Imipramine	120
Nordoxepine	150	Clomipramine	15,000
Trimipramine	900	Doxepine	600
Amitriptyline	450	Maprotiline	600
Promazine	900	Promethazine	15,000
Desipramine	60	Perphenazine	15,000
Cyclobenzaprine	600	Dithiaden	3,000
TRAMADOL (TML 100)			
n-Desmethyl-cis-tramadol	200	o-Desmethyl-cis-tramadol	10,000
Cis-tramadol	100	Phencyclidine	100,000
Procyclidine	100,000	d,l-O-Desmethyl venlafaxine	50,000
TRAMADOL (TML 200)			
n-Desmethyl-cis-tramadol	400	o-Desmethyl-cis-tramadol	20,000
Cis-tramadol	200	Phencyclidine	200,000
Procyclidine	200,000	d,l-O-Desmethyl venlafaxine	100,000
TRAMADOL (TML 300)			
n-Desmethyl-cis-tramadol	600	o-Desmethyl-cis-tramadol	30,000
Cis-tramadol	300	Phencyclidine	300,000
Procyclidine	300,000	d,l-O-Desmethyl venlafaxine	150,000
TRAMADOL (TML 500)			
n-Desmethyl-cis-tramadol	1,000	o-Desmethyl-cis-tramadol	50,000
Cis-tramadol	500	Phencyclidine	500,000
Procyclidine	500,000	d,l-O-Desmethyl venlafaxine	250,000
KETAMINE (KET 1, 000)			
Ketamine	1,000	Benzphetamine	25,000
Dextromethorphan	2,000	(+) Chlorpheniramine	25,000
Methoxyphenamine	25,000	Clonidine	100,000
d-Norpropoxyphene	25,000	EDDP	50,000
Promazine	25,000	4-Hydroxyphencyclidine	50,000
Promethazine	25,000	Levorphanol	50,000
Pentazocine	25,000	MDE	50,000
Phencyclidine	25,000	Meperidine	25,000
Tetrahydrozoline	500	d-Methamphetamine	50,000
Mephentermine	25,000	l-Methamphetamine	50,000
(1R, 2S) - (-)-Ephedrine	100,000	3,4-Methylendioxymetham-phetamine (MDMA)	100,000
Disopyramide	25,000	Thioridazine	50,000
KETAMINE (KET 500)			
Ketamine	500	Benzphetamine	12,500
Dextromethorphan	1,000	(+) Chlorpheniramine	12,500
Methoxyphenamine	12,500	Clonidine	50,000
d-Norpropoxyphene	12,500	EDDP	25,000
Promazine	12,500	4-Hydroxyphencyclidine	25,000
Promethazine	12,500	Levorphanol	25,000
Pentazocine	12,500	MDE	25,000
Phencyclidine	12,500	Meperidine	12,500
Tetrahydrozoline	250	d-Methamphetamine	25,000
Mephentermine	12,500	l-Methamphetamine	25,000
(1R, 2S) - (-)-Ephedrine	50,000	3,4-Methylendioxymetham-phetamine (MDMA)	50,000
Disopyramide	12,500	Thioridazine	25,000
KETAMINE (KET 300)			
Ketamine	300	Benzphetamine	6,250
Dextromethorphan	600	(+) Chlorpheniramine	6,250
Methoxyphenamine	6,250	Clonidine	30,000
d-Norpropoxyphene	6,250	EDDP	15,000
Promazine	6,250	4-Hydroxyphencyclidine	15,000
Promethazine	6,250	Levorphanol	15,000
Pentazocine	6,250	MDE	15,000
Phencyclidine	6,250	Meperidine	6,250
Tetrahydrozoline	150	d-Methamphetamine	15,000
Mephentermine	6,250	l-Methamphetamine	15,000
(1R, 2S) - (-)-Ephedrine	30,000	3,4-Methylendioxymetham-phetamine (MDMA)	30,000
Disopyramide	6,250	Thioridazine	15,000
KETAMINE (KET 100)			
Ketamine	100	Benzphetamine	2,000
Dextromethorphan	200	(+) Chlorpheniramine	2,000
Methoxyphenamine	2,000	Clonidine	10,000
d-Norpropoxyphene	2,000	EDDP	5,000
Promazine	2,000	4-Hydroxyphencyclidine	5,000
Promethazine	2,000	Levorphanol	5,000
Pentazocine	2,000	MDE	5,000
Phencyclidine	2,000	Meperidine	2,000
Tetrahydrozoline	50	d-Methamphetamine	5,000
Mephentermine	2,000	l-Methamphetamine	5,000
(1R, 2S) - (-)-Ephedrine	10,000	Thioridazine	5,000
Disopyramide	2,000	3,4-Methylendioxymetham-phetamine (MDMA)	10,000
OXYCODONE (OXY 300)			

Oxycodone	300	Hydromorphone	150,000
Oxymorphone	900	Naloxone	75,000
Levorphanol	15,000	Naltrexone	75,000
Hydrocodone	75,000		
OXYCODONE (OXY 100)			
Oxycodone	100	Hydromorphone	50,000
Oxymorphone	300	Naloxone	25,000
Levorphanol	50,000	Naltrexone	25,000
Hydrocodone	25,000		
COTININE (COT 300)			
(-)-Cotinine	300	(-)-Nicotine	7,500
COTININE (COT 200)			
(-)-Cotinine	200	(-)-Nicotine	5,000
COTININE (COT 100)			
(-)-Cotinine	100	(-)-Nicotine	2,500
COTININE (COT 500)			
(-)-Cotinine	500	(-)-Nicotine	12,500
COTININE (COT 50)			
(-)-Cotinine	50	(-)-Nicotine	1,250
COTININE (COT 10)			
(-)-Cotinine	10	(-)-Nicotine	250
2-ETHYLIDENE-1,5-DIMETHYL-3,3-DIPHENYLPYRROLIDINE (EDDP 300)			
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)			300
2-ETHYLIDENE-1,5-DIMETHYL-3,3-DIPHENYLPYRROLIDINE (EDDP 100)			
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)			100
FENTANYL (FYL 300)			
Alfentanyl	>600,000	Buspirone	80,000
Norfentanyl	60	Fentanyl	300
Fenfluramine	150,000	Sufentanyl	150,000
FENTANYL (FYL 200)			
Alfentanyl	>600,000	Buspirone	30,000
Fenfluramine	100,000	Fentanyl	200
Norfentanyl	40	Sufentanyl	100,000
FENTANYL (FYL 100)			
Alfentanyl	600,000	Buspirone	15,000
Fenfluramine	50,000	Fentanyl	100
Norfentanyl	20	Sufentanyl	50,000
FENTANYL (FYL 20)			
Alfentanyl	600,000	Buspirone	15,000
Fenfluramine	50,000	Fentanyl	100
Norfentanyl	20	Sufentanyl	50,000
paliperidone	1,250	Risperidone	5,000
FENTANYL (FYL 10)			
Alfentanyl	300,000	Buspirone	8,000
Fenfluramine	25,000	Fentanyl	50
Norfentanyl	10	Sufentanyl	25,000
paliperidone	500	Risperidone	2,500
SYNTHETIC MARIJUANA (K2-50)			
JWH-018 5-Pentanoic acid	50	JWH-073 4-butanoic acid	50
JWH-018 4-Hydroxypentyl	400	JWH-018 5-Hydroxypentyl	500
JWH-073 4-Hydroxybuty	500		
SYNTHETIC MARIJUANA (K2-30)			
JWH-018 5-Pentanoic acid	30	JWH-073 4-butanoic acid	30
JWH-018 4-Hydroxypentyl	250	JWH-018 5-Hydroxypentyl	300
JWH-073 4-Hydroxybuty	300		
SYNTHETIC MARIJUANA (K2-25)			
JWH-018 5-Pentanoic acid	25	JWH-073 4-butanoic acid	25
JWH-018 4-Hydroxypentyl	200	JWH-018 5-Hydroxypentyl	250
JWH-073 4-Hydroxybuty	250		
6-MONOACETYLMORPHINE (6-MAM 10)			
6-Monoacethylmorphine	10	Morphine	100,000
(±) 3, 4-METHYLENEDIOXYAMPHETAMINE (MDA 500)			
(±) 3,4-Methylenedioxy amphetamine	500	Methoxyphenamine	6,000
		D-Amphetamine	2,000
D,L-Amphetamine sulfate	300	Phentermine	1,000
L-Amphetamine	25,000	Maprotiline	50,000
ETHYL-β-D-GLUCURONIDE (ETG 300)			
Ethyl- β -D-Glucuronide	300	Propyl β-D-glucuronide	30,000
Morphine 3β-glucuronide	60,000	Morphine 6β-glucuronide	60,000
Glucuronic Acid	60,000	Ethanol	>100,000
Methanol	>100,000		
ETHYL-β-D-GLUCURONIDE (ETG 500)			
Ethyl- β -D-Glucuronide	500	Propyl β-D-glucuronide	50,000
Morphine 3β-glucuronide	100,000	Morphine 6β-glucuronide	100,000
Glucuronic Acid	100,000	Ethanol	>100,000
Methanol	>100,000		
ETHYL-β-D-GLUCURONIDE (ETG 1,000)			
Ethyl- β -D-Glucuronide	1,000	Propyl β-D-glucuronide	100,000
Morphine 3β-glucuronide	>100,000	Morphine 6β-glucuronide	>100,000
Glucuronic Acid	>100,000	Ethanol	>100,000
Methanol	>100,000		
ETHYL-β-D-GLUCURONIDE (ETG 1,500)			
Ethyl- β -D-Glucuronide	1,500	Propyl β-D-glucuronide	150,000
Morphine 3β-glucuronide	>100,000	Morphine 6β-glucuronide	>100,000
Glucuronic Acid	>100,000	Ethanol	>100,000
Methanol	>100,000		

Multi-Drug X(2-17) Drugs Rapid Test Cassette with/without Adulteration (Urine)

English

IVD

CITEST DIAGNOSTICS INC.
170-422 Richards Street
Vancouver BC, V6B 2Z4, Canada

EC REP
CMC MEDICAL DEVICES & DRUGS, S.L.
C/ Horacio Lengo Nº 18, CP 29006, Málaga-Spain

CLONAZEPAM (CLO 400)			
Clonazepam	400	Flunitrazepam	300
Alprazolam	200	(±) Lorazepam	1,250
a-hydroxyalprazolam	2,000	RS-Lorazepamglucuronide	250
Bromazepam	1,000	Midazolam	5,000
Chlordiazepoxide	1,000	Nitrazepam	200
Clobazam	250	Norchlordiazepoxide	200
Clorazepatedipotassium	600	Nordiazepam	1,000
Delorazepam	1,000	Oxazepam	350
Desalkylflurazepam	250	Temazepam	150
Diazepam	300	Triazolam	5,000
Estazolam	1,250		
CLONAZEPAM (CLO 150)			
Clonazepam	150	Flunitrazepam	120
Alprazolam	75	(±) Lorazepam	500
a-hydroxyalprazolam	750	RS-Lorazepamglucuronide	100
Bromazepam	400	Midazolam	2,000
Chlordiazepoxide	400	Nitrazepam	75
Clobazam	100	Norchlordiazepoxide	75
Clorazepatedipotassium	250	Nordiazepam	400
Delorazepam	400	Oxazepam	130
Desalkylflurazepam	100	Temazepam	60
Diazepam	120	Triazolam	2,000
Estazolam	500		
LYSERGIC ACID DIETHYLAMIDE (LSD 10)			
Lysergic Acid Diethylamide	10		
LYSERGIC ACID DIETHYLAMIDE (LSD 20)			
Lysergic Acid Diethylamide	20		
LYSERGIC ACID DIETHYLAMIDE (LSD 50)			
Lysergic Acid Diethylamide	50		
METHYLPHENIDATE (MPD 300)			
Methylphenidate (Ritalin)	300	Ritalinic Acid	1,000
METHYLPHENIDATE (MPD 150)			
Methylphenidate (Ritalin)	150	Ritalinic Acid	500
METHYLPHENIDATE (MPD 1,000)			
Methylphenidate (Ritalin)	350	Ritalinic Aicd	1,000
ZOLPIDEM (ZOL 50)			
Zolpidem	50		
MEPHEDRONE (MEP 500)			
Mephedrone HCl	500	R(+)-Methcathinone HCl	7,500
S(-)-Methcathinone HCl	2,500	3-Fluoromethcathinone HCl	7,500
4-Fluoromethcathinone HCl	1,500	Methoxyphenamine	100,000
MEPHEDRONE (MEP 100)			
Mephedrone HCl	100	R(+)-Methcathinone HCl	1500
S(-)-Methcathinone HCl	500	3-Fluoromethcathinone HCl	1500
4-Fluoromethcathinone HCl	300	Methoxyphenamine	100,000
3, 4-METHYLENEDIOXYPYROVALERONE (MDPV 1,000)			
3, 4- methylenedioxy-pyrovalerone	1,000		
3, 4-METHYLENEDIOXYPYROVALERONE (MDPV 500)			
3, 4- methylenedioxy-pyrovalerone	500		
3, 4-METHYLENEDIOXYPYROVALERONE (MDPV 300)			
3, 4- methylenedioxy-pyrovalerone	300		
DIAZEPAM (DIA 300)			
Diazepam	300	Midazolam	6,000
Clobazam	200	Nitrazepam	200
Clonazepam	500	Norchlordiazepoxide	100
Clorazepate dipotassium	500	Nordiazepam	900
Alprazolam	100	Flunitrazepam	200
a-hydroxyalprazolam	1,500	(±) Lorazepam	3,000
Bromazepam	900	RS-Lorazepam glucuronide	200
Chlordiazepoxide	900	Triazolam	3,000
Estazolam	6,000	Temazepam	100
Delorazepam	900	Oxazepam	300
Desalkylflurazepam	200		
DIAZEPAM (DIA 200)			
Diazepam	200	Midazolam	4,000
Clobazam	120	Nitrazepam	120
Clonazepam	300	Norchlordiazepoxide	70
Clorazepate dipotassium	300	Nordiazepam	600
Alprazolam	70	Flunitrazepam	120
a-hydroxyalprazolam	1,000	(±) Lorazepam	2,000
Bromazepam	600	RS-Lorazepam glucuronide	120
Chlordiazepoxide	600	Triazolam	2,000
Estazolam	4,000	Temazepam	70
Delorazepam	600	Oxazepam	200
Desalkylflurazepam	120		
ZOPICLONE (ZOP 300)			
Zopiclone-x-oxide	300	Zopiclone	300
ZOPICLONE (ZOP 50)			
Zopiclone-x-oxide	50	Zopiclone	50
METHCATHINONE (MCAT 500)			
S(-)-Methcathinone HCl	500	R(+)-Methcathinone HCl	1,500
Methoxyphenamine	100,000	3-Fluoromethcathinone HCl	1,500
7-AMINOCLONAZEPAM (7-ACL 300)			
a-hydroxyalprazolam	6,000	Flunitrazepam	3,000
Bromazepam	6,000	RS-Lorazepam glucuronide	2,700
Chlordiazepoxide	6,000	Norchlordiazepoxide	4,500
Clobazam	9,000	Nordiazepam	15,000
Clonazepam	2,400	Temazepam	9,000
Delorazepam	6,000	7-Aminoclonazepam	300
Desalkylflurazepam	6,000		
7-AMINOCLONAZEPAM (7-ACL 200)			
a-hydroxyalprazolam	4,000	Flunitrazepam	2,000
Bromazepam	4,000	RS-Lorazepam glucuronide	1,800
Chlordiazepoxide	4,000	Norchlordiazepoxide	3,000
Clobazam	6,000	Nordiazepam	10,000
Clonazepam	1,600	Temazepam	6,000
Delorazepam	4,000	7-Aminoclonazepam	200
Desalkylflurazepam	4,000		
7-AMINOCLONAZEPAM (7-ACL 100)			
a-hydroxyalprazolam	2,000	Flunitrazepam	1,000
Bromazepam	2,000	RS-Lorazepam glucuronide	900
Chlordiazepoxide	2,000	Norchlordiazepoxide	1,500
Clobazam	3,000	Nordiazepam	5,000
Clonazepam	800	Temazepam	3,000
Delorazepam	2,000	7-Aminoclonazepam	100
Desalkylflurazepam	2,000		
CARFENTANYL (CFYL 500)			
Carfentanyl	500	Fentanyl	100
Sufentanil	50,000	Ramifentanil	10,000
(±)cis-3-Menthylfentanyl	20,000	Butyl fentanyl	150
CARFENTANYL (CFYL 250)			
Carfentanyl	250	Fentanyl	50
Sufentanil	25,000	Ramifentanil	5,000
(±)cis-3-Menthylfentanyl	10,000	Butyl fentanyl	75
CAFFEINE (CAF 1,000)			
Caffeine	1,000		
CATHINE (CAT 150)			
(+)-Norpseudoephedrine HCl (Cathine)	150	(+)3,4-Methylenedioxyamphetamine (MDA)	100
d/l-Amphetamine	100	p-Hydroxyamphetamine	100
Tryptamine	12,500	Methoxyphenamine	12,500
TROPICAMIDE (TRO 350)			
Tropicamide	350		
ALPRAZOLAM (ALP 100)			
Benzodiazepines	300	Flunitrazepam	200
a-hydroxyalprazolam	1,500	(±) Lorazepam	3,000
Bromazepam	900	RS-Lorazepamglucuronide	200
Chlordiazepoxide	900	Midazolam	6,000
Clobazam	200	Nitrazepam	200
Clonazepam	500	Norchlordiazepoxide	100
Clorazepatedipotassium	500	Nordiazepam	900
Delorazepam	900	Oxazepam	300
Desalkylflurazepam	200	Temazepam	100
Diazepam	300	Triazolam	3,000
Estazolam	6,000	Alprazolam	100
PREGABALIN (PGB 50,000)			
Pregabalin	50,000		
PREGABALIN (PGB 500)			
Pregabalin	500		
ZALEPLON (ZAL 100)			
Zaleplon	100		
CANNABINOL(CNB 500)			
cannabinol	500	Δ^9 -THC	10,000
11-nor-Δ^9 -THC-9 COOH	300		
GABAPENTIN (GAB 2,000)			
Gabapentin	2,000		
TRAZODONE (TZD 200)			
Trazodone	200		
CARISOPRODOL (CAR 2,000)			
Carisoprodol	2,000		
CARISOPRODOL (CAR 1,000)			
Carisoprodol	1,000		
CARISOPRODOL (CAR 500)			
Carisoprodol	500		
AB-PINACA (ABP 10)			
AB-PINACA	10	AB-PINACA 5-Pentanoic	10
AB-PINACA 5-hydroxypentyl	10	AB-FUBINACA	10
AB-PINACA 4-hydroxypentyl	10,000	UR-144 5-Pentanoic	5,000
UR-144 5-hydroxypentyl	10,000	UR-144 4-hydroxypentyl	10,000
APINACA 5-hydroxypentyl	10,000	ADB-PINACA Pentanoic Acid	10
ADB-PINACA N-(5-hydroxypentyl)	30	5-fluoro AB-PINACA N-(4-hydroxypentyl)	30
5-fluoro AB-PINACA	25		
UR-144 (25)			
UR-144 5-Pentanoic acid	25	UR-144 4-hydroxypentyl	10,000
UR-144 5-hydroxypentyl	5000	XLR-11 4-hydroxypentyl	2,000
5-fluoro AB-Pinaca N-(4-hydroxypentyl)	10,000	ADB-PINAC N-(4-hydroxypentyl)	>10,000
AB-PINACA 4-hydroxypentyl	>10,000		
QUETIAPINE (QTP 1,000)			
Quetiapine	1,000	Norquetiapine	10,000
FLUOXETINE (FLX 500)			
Fluoxetine	500		
KRATOM (KRA 300)			
Mitragynine	300	7-hydroxymitragynine	>50,000
TILIDINE (TLD 50)			
Nortilidine	50	Tilidine	100
ALPHA-PYRROLIDINOVALEROPHENONE (α-PVP 2,000)			
Alpha-Pyrrolidinovalerophenone	2,000		
ALPHA-PYRROLIDINOVALEROPHENONE (α-PVP 1,000)			
Alpha-Pyrrolidinovalerophenone	1,000		
ALPHA-PYRROLIDINOVALEROPHENONE (α-PVP 500)			
Alpha-Pyrrolidinovalerophenone	500		
ALPHA-PYRROLIDINOVALEROPHENONE (α-PVP 300)			
Alpha-Pyrrolidinovalerophenone	300		
MESCALINE (MES 100)			
Mescaline	100		
MESCALINE (MES 300)			
Mescaline	300		
PAPAVERINE (PAP 500)			
Papaverine	500	Diflunisal	1,000,000
Methortrexate	65,000	Methedrone	500,000
Pragablin	500,000	Phenelzine	8,000
Quinine	4,000		
TAPENTADOL (TAP 1,000)			
3-((1R,2R)-3-(dimethylamino)-1-ethyl-2-methylpropyl)phenol	1,000		
CITALOPRAM (CIT 500)			
Desmethylcitalopram	500		
F-KETAMINE (FKET 1,000)			
2-(2-fluorphenyl)-2-methylamino-cyclohexanone	1,000		
RISPERIDONE (RPD 150)			
Risperidone	150		
SCOPOLAMINE (SCOP 500)			
Scopolamine	500	atropine	3,000
N, N-DIMETHYLTRYPTAMINE (NND 1,000)			
N, N-Dimethyltryptamine	1,000		
MIRTAZAPINE (MTZ 500)			
N-Desmethylmirtazapine	500	Mirtazapine	500
OLANZAPINE (OZP 1,000)			
Olanzapine	1,000		
HYDROMORPHONE (HMO 500)			
Hydromorphone	500	Morphine	200
Codeine	120	Ethylmorphine	120
Hydrocodone	500	Morphine 3-β-D-Glucuronide	250
Levorphanol	2,000	Oxycodone	125000
Normorphine	125000	Norcodeine	31200
Oxymorphone	125000	Nalorphine	50000
Thebaine	10000	Diacetylmorphine (Heroin)	250
6-Monoacetylmorphine	120		
HYDROMORPHONE (HMO 300)			
Hydromorphone	300	Morphine	120
Codeine	75	Ethylmorphine	75
Hydrocodone	300	Morphine 3-β-D-Glucuronide	150
Levorphanol	1,200	Oxycodone	75,000
Normorphine	75,000	Norcodeine	18,700
Oxymorphone	75,000	Nalorphine	30,000
Thebaine	6000	Diacetylmorphine (Heroin)	150
6-Monoacetylmorphine	75		
HYDROMORPHONE (HMO 250)			
Hydromorphone	250	Morphine	100
Codeine	60	Ethylmorphine	60
Hydrocodone	250	Morphine 3-β-D-Glucuronide	125
Levorphanol	1,000	Oxycodone	62500
Normorphine	62500	Norcodeine	15600
Oxymorphone	62500	Nalorphine	25000
Thebaine	5000	Diacetylmorphine (Heroin)	125
6-Monoacetylmorphine	60		

Effect of Urinary Specific Gravity

Fifteen (15) urine samples of normal, high, and low specific gravity ranges (1.005-1.045) were spiked with drugs at 50% below and 50% above cut-off levels respectively. The Multi-Drug Rapid Test was tested in duplicate using fifteen drug-free urine and spiked urine samples. The results demonstrate that varying ranges of urinary specific gravity do not affect the test results.

Effect of Urinary pH

The pH of an aliquoted negative urine pool was adjusted to a pH range of 5 to 9 in 1 pH unit increments and spiked with drugs at 50% below and 50% above cut-off levels. The spiked, pH-adjusted urine was tested with the Multi-Drug Rapid Test. The results demonstrate that varying ranges of pH do not interfere with the performance of the test.

Cross-Reactivity

A study was conducted to determine the cross-reactivity of the test with compounds in either drug-free urine or drug positive urine containing above related calibrator substances. The following compounds show no cross-reactivity when tested with the Multi-Drug Rapid Test at a concentration of 100 µg/mL.

Non Cross-Reacting Compounds

N-Acetylprocainamide	Creatinine	Ketoprofen	Quinine
Acetylsalicylic acid	Deoxycorticosterone	Labetalol	Salicylic acid
Aminopyrine	Dextromethorphan	Loperamide	Serotonin
Amoxicillin	Diclofenac	Meprobamate	Sulfamethazine
Ampicillin	Diflunisal	Isoxsuprine	Sulindac
l-Ascorbic acid	Digoxin	d,l-Propanolol	Tetracycline
Apomorphine	Diphenhydramine	Nalidixic acid	Tetrahydrocortisone,
Aspartame	Ethyl-p-aminobenzoate	Naproxen	3-acetate
Atropine	β-Estradiol	Niacinamide	Tetrahydrocortisone
Benzilic acid	Estrone-3-sulfate	Nifedipine	Tetrahydrozoline
Benzoic acid	Erythromycin	Norethindrone	Thiamine
Bilirubin	Fenoprofen	Noscapine	Thioridazine
d,l-Brompheniramine	Furosemide	d,l-Octopamine	d,l-Tyrosine
Cannabidiol	Gentisic acid	Oxalic acid	Tolbutamide
Chloral hydrate	Hemoglobin	Oxolinic acid	Triamterene
Chloramphenicol	Hydralazine	Oxymetazoline	Trifluoperazine
Chlorothiazide	Hydrochlorothiazide	Papaverine	Trimethoprim
d,l-Chlorpheniramine	Hydrocortisone	Penicillin-G	d,l-Tryptophan
Chlorpromazine	o-Hydroxyhippuric acid	Perphenazine	Uric acid
Cholesterol	3-Hydroxytyramine	Phenelzine	Verapamil
Clonidine	d,l-Isoproterenol	Prednisone	

ALCOHOL PERFORMANCE CHARACTERISTICS

The detection limit on the **Urine Alcohol Rapid Test** is from 0.02% to 0.30% for approximate relative blood alcohol level. The cutoff level of the **Urine Alcohol Rapid Test** can vary based on local regulations and laws. Test results can be compared to reference levels with color chart on the foil package.

ALCOHOL ASSAY SPECIFICITY

The **Urine Alcohol Rapid Test** will react with methyl, ethyl and allyl alcohols.

ALCOHOL INTERFERING SUBSTANCES

The following substances may interfere with the **Urine Alcohol Rapid Test** when using samples other than urine. The named substances do not normally appear in sufficient quantity in urine to interfere with the test.

A. Agents which enhance color development
- Peroxidases
- Strong oxidizers

B. Agents which inhibit color development
- Reducing agents: Ascorbic acid, Tannic acid, Pyrogallol, Mercaptans and tosylates, Oxalic acid, Uric Acid
- Bilirubin
- L-dopa
- L-methyldopa
- Methampyrone

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INDEX OF SYMBOLS

IVD	*In vitro* diagnostic medical device
2°C 30°C	Temperature limit
	Do not use if package is damaged and consult instructions for use
REF	Catalogue number
Σ	Contains sufficient for <n> tests
	Use-by date
LOT	Batch code
	Manufacturer
	Do not re-use
	Consult instructions for use or consult electronic instructions for use
	Caution
EC REP	Authorized representative in the European Community

Number: 145062008
Date: 2023-07-19

Multi-Drug Rapid Test Cassette (Whole Blood/Serum/Plasma)

English

CITEST DIAGNOSTICS INC.
170-422 Richards Street
Vancouver BC, V6B 2Z4, Canada

EC REP
CMC MEDICAL DEVICES & DRUGS, S.L.
C/ Horacio Lengo Nº 18, CP 29006, Málaga-Spain

Instruction Sheet for testing of any combination of the following drugs:
AMP/BAR/BZO/BUP/COC/THC/MTD/MET/MDMA/MOP/OPI/PPX/TCA/OXY/EDDP/COT/TML/FYL/MDPV/K2/PCP/KET/LSD/MDA

A rapid test for the simultaneous, qualitative detection of multiple drugs and drug metabolites in human whole blood or serum or plasma, For healthcare professionals including professionals at point of care sites. Immunoassay for in vitro diagnostic use only.

INTENDED USE

The Multi-Drug Rapid Test Cassette is a rapid chromatographic immunoassay for the qualitative detection of multiple drugs and drug metabolites in whole blood or serum or plasma at the following cut-off concentrations:

Test	Calibrator	Cut-off (ng/ml)
Amphetamine (AMP)	d-Amphetamine	80/50
Barbiturates (BAR)	Secobarbital	100
Benzodiazepines (BZO)	Oxazepam	100
Buprenorphine (BUP)	Buprenorphine	5/10
Cocaine (COC)	Benzoylecgonine	50
Marijuana (THC)	11-nor-Δ9-THC-9 COOH	35/12
Methadone (MTD)	Methadone	40
Methamphetamine (MET)	d-Methamphetamine	70
Methylenedioxymethamphetamine (MDMA)	d,l-Methylenedioxymethamphetamine	50
Morphine (MOP/OPI)	Morphine	40
Propoxyphene (PPX)	Propoxyphene	100
Tricyclic Antidepressants (TCA)	Nortriptyline	300
Oxycodone (OXY)	Oxycodone	20
2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine	50
Cotinine(COT10)	Cotinine	10
Cotinine(COT100)	Cotinine	100
Tramadol(TML50)	Cis-Tramadol	50
Fentanyl(FYL)	Norfentanyl	15
3,4-methylenedioxypyrovalerone(MDPV)	3,4-methylenedioxypyrovalerone	300
Synthetic Marijuana(K2)	JWH-018,JWH-073	100
Phencyclidine(PCP)	Phencyclidine	20
Ketamine(KET)	Ketamine	200
Lysergic acid diethylamide (LSD)	Lysergic Acid Diethylamide	20
3,4-Methylenedioxyamphetamine (MDA)	3,4-Methylenedioxyamphetamine	80

Configurations of the Multi-Drug Rapid Test Cassette come with any combination of the above listed drug analytes. This assay provides only a preliminary analytical test result. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. Gas chromatography/mass spectrometry (GC/MS) is the preferred confirmatory method. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are indicated.

SUMMARY

The Multi-Drug Rapid Test Cassette is a rapid test in whole blood or serum or plasma screening test that can be performed without the use of an instrument.[1] The test utilizes monoclonal antibodies to selectively detect elevated levels of specific drugs in whole blood or serum or plasma.

Amphetamine (AMP)

Amphetamine is a Schedule II controlled substance available by prescription (Dexedrine®) and is also available on the illicit market. Amphetamines are a class of potent sympathomimetic agents with therapeutic applications. They are chemically related to the human body's natural catecholamines: epinephrine and norepinephrine. Acute higher doses lead to enhanced stimulation of the central nervous system and induce euphoria, alertness, reduced appetite, and a sense of increased energy and power. Cardiovascular responses to Amphetamines include increased blood pressure and cardiac arrhythmias. More acute responses produce anxiety, paranoia, hallucinations, and psychotic behavior. The effects of Amphetamines generally last 2-4 hours following use, and the drug has a half-life of 4-24 hours in the body. About 30% of Amphetamines are excreted in the whole blood or serum or plasma in unchanged form, with the remainder as hydroxylated and deaminated derivatives.
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of amphetamines in whole blood/serum/plasma exceeds 80ng/ml.

Barbiturates (BAR)

Barbiturates are CNS depressants. They are used therapeutically as sedatives, hypnotics, and anticonvulsants barbiturates are almost always taken orally as capsules or tablets. The effects resemble those of intoxication with alcohol. Chronic use of barbiturates leads to tolerance and physical dependence.
Short-acting barbiturates taken at 400mg/day for 2-3 months can produce a clinically significant degree of physical dependence. Withdrawal symptoms experienced during periods of drug abstinence can be severe enough to cause death.
Only a small amount (less than 5%) of most barbiturates are excreted unaltered in the whole blood or serum or plasma.
The approximate detection time limits for barbiturates are:

Short acting (e.g. Secobarbital)	100 mg PO (oral)	4.5 days
Long acting (e.g. Phenobarbital)	400 mg PO (oral)	7 days[2]

The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of barbiturates in whole blood/serum/plasma exceeds 100ng/ml.

Benzodiazepines (BZO)

Benzodiazepines are medications that are frequently prescribed for the symptomatic treatment of anxiety and sleep disorders. They produce their effects via specific receptors involving a neurochemical called gamma aminobutyric acid (GABA). Because they are safer and more effective, benzodiazepines have replaced barbiturates in the treatment of both anxiety and insomnia.
Benzodiazepines are also used as sedatives before some surgical and medical procedures, and for the treatment of seizure disorders and alcohol withdrawal.
Risk of physical dependence increases if benzodiazepines are taken regularly (e.g. daily) for more than a few months, especially at higher than normal doses. Stopping abruptly can bring on such symptoms as trouble sleeping, gastrointestinal upset, feeling unwell, loss of appetite, sweating, trembling, weakness, anxiety and changes in perception.
Only trace amounts (less than 1%) of most benzodiazepines are excreted unaltered in the whole blood or serum or plasma; most of the concentration in whole blood/serum/plasma is conjugated drug. The detection period for benzodiazepines in whole blood/serum/plasma is 3-7 days.
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of benzodiazepines in whole blood/serum/plasma exceeds 100ng/ml.

Buprenorphine (BUP)

Buprenorphine is a potent analgesic often used in the treatment of opioid addiction. The drug is sold under the trade names Subutex™, Buprenex™, Temgesic™ and Suboxone™, which contain Buprenorphine HCl alone or in combination with Naloxone HCl. Therapeutically, Buprenorphine is used as a substitution treatment for opioid addicts. Substitution treatment is a form of medical care offered to opiate addicts (primarily heroin addicts) based on a similar or identical substance to the drug normally used. In substitution therapy, Buprenorphine is as effective as Methadone but demonstrates a lower level of physical dependence. Concentrations of free Buprenorphine and Norbuprenorphine in whole blood or serum or plasma may be less than 1 ng/ml after therapeutic administration, but can range up to 20 ng/ml in abuse situations. The plasma half life of Buprenorphine is 2-4 hours.[3] While complete elimination of a single dose of the drug can take as long as 6 days, the window of detection for the parent drug in whole blood/serum/plasma is thought to be approximately 3 days.
Substantial abuse of Buprenorphine has also been reported in many countries where various forms of the drug are available. The drug has been diverted from legitimate channels through theft, doctor shopping, and fraudulent prescriptions, and been abused via intravenous, sublingual, intranasal and inhalation routes.
The Multi-Drug Rapid Test Cassette yields a positive result when the Buprenorphine in whole blood/serum/plasma exceeds 5ng/ml.

Cocaine (COC)

Cocaine is a potent central nervous system stimulant and a local anesthetic. Initially, it brings about extreme energy and restlessness while gradually resulting in tremors, over-sensitivity and spasms. In large amounts, cocaine causes fever, unresponsiveness, difficulty in breathing and unconsciousness. Cocaine is often self-administered by nasal inhalation, intravenous injection and free-base smoking. It is excreted in the whole blood/serum/plasma in a short time primarily as benzoylecgonine.[4,5] Benzoylecgonine, a major metabolite of cocaine, has a longer biological half-life (5-8 hours) than cocaine (0.5-1.5 hours), and can generally be detected for 24-48 hours after cocaine exposure.[5]
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of benzoylecgonine in whole blood/serum/plasma exceeds 50 ng/ml.

Marijuana (THC)

THC (Δ9-tetrahydrocannabinol) is the primary active ingredient in cannabis (marijuana). When smoked or orally administered, THC produces euphoric effects. Users have impaired short-term memory and slowed learning. They may also experience transient episodes of confusion and anxiety. Long-term, relatively heavy use may be associated with behavioral disorders. The peak effect of marijuana administered by smoking occurs in 20-30 minutes and the duration is 90-120 minutes after one cigarette. Elevated levels of urinary metabolites are found within hours of exposure and remain detectable for 3-10 days after smoking. The main metabolite excreted in the whole blood/ serum/ plasma is 11-nor-Δ9-tetrahydrocannabinol-9- carboxylic acid
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of THC-COOH in whole blood/serum/plasma exceeds 35ng/ml.

Methadone (MTD)

Methadone is a narcotic analgesic prescribed for the management of moderate to severe pain and for the treatment of opiate dependence (heroin, Vicodin, Percocet, morphine). The pharmacology of oral methadone is very different from IV methadone. Oral methadone is partially stored in the liver for later use. IV methadone acts more like heroin. In most states you must go to a pain clinic or a methadone maintenance clinic to beprescribed methadone.
Methadone is a long acting pain reliever producing effects that last from twelve to forty-eight hours. Ideally, methadone frees the client from the pressures of obtaining illegal heroin, from the dangers of injection, and from the emotional roller coaster that most opiates produce. Methadone, if taken for long periods and at large doses, can lead to a very long withdrawal period. The withdrawals from methadone are more prolonged and troublesome than those provoked by heroin cessation, yet the substitution and phased removal of methadone is an acceptable method of detoxification for patients and therapists.[6]
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of methadone in whole blood/serum/plasma exceeds 40ng/ml.

Methamphetamine (MET)

Methamphetamine is an addictive stimulant drug that strongly activates certain systems in the brain. Methamphetamine is closely related chemically to Amphetamine, but the central nervous system effects of Methamphetamine are greater. Methamphetamine is made in illegal laboratories and has a high potential for abuse and dependence. The drug can be taken orally, injected, or inhaled. Acute higher doses lead to enhanced stimulation of the central nervous system and induce euphoria, alertness, reduced appetite, and a sense of increased energy and power. Cardiovascular responses to Methamphetamine include increased blood pressure and cardiac arrhythmias. More acute responses produce anxiety, paranoia, hallucinations, psychotic behavior, and eventually, depression and exhaustion.
The effects of Methamphetamine generally last 2-4 hours and the drug have a half-life of 9-24 hours in the body. Methamphetamine is excreted in the whole blood/serum/plasma primarily as Amphetamine, and oxidized and deaminated derivatives. However, 10-20% of Methamphetamine is excreted unchanged. Thus, the presence of the parent compound in the whole blood/serum/plasma indicates Methamphetamine use. Methamphetamine is generally detectable in the whole blood/serum/plasma for 3-5 days, depending on whole blood/serum/plasma pH level.
The Multi-Drug Rapid Test Cassette yields a positive result when the Methamphetamine in whole blood/serum/plasma exceeds 70ng/ml.

Methylenedioxymethamphetamine (MDMA)

Methylenedioxymethamphetamine (ecstasy) is a designer drug first synthesized in 1914 by a German drug company for the treatment of obesity.[7] Those who take the drug frequently report adverse effects, such as increased muscle tension and sweating. MDMA is not clearly a stimulant, although it has, in common with amphetamine drugs, a capacity to increase blood pressure and heart rate. MDMA does produce some perceptual changes in the form of increased sensitivity to light, difficulty in focusing, and blurred vision in some users. Its mechanism of action is thought to be via release of the neurotransmitter serotonin. MDMA may also release dopamine, although the general opinion is that this is a secondary effect of the drug (Nichols and Oberlender, 1990). The most pervasive effect of MDMA, occurring in virtually all people who took a reasonable dose of the drug, was to produce a clenching of the jaws.
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of Methylenedioxymethamphetamine in whole blood/serum/plasma exceeds 50ng/ml.

Morphine (MOP/OPI)

Opiate refers to any drug that is derived from the opium poppy, including the natural products, morphine and codeine, and the semi-synthetic drugs such as heroin. Opioid is more general, referring to any drug that acts on the opioid receptor.
Opioid analgesics comprise a large group of substances which control pain by depressing the CNS. Large doses of morphine can produce higher tolerance levels, physiological dependency in users, and may lead to substance abuse. Morphine is excreted unmetabolized, and is also the major metabolic product of codeine and heroin. Morphine is detectable in the whole blood/serum/plasma for several days after an opiate dose.[8]
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of morphine in whole blood/serum/plasma exceeds 40ng/ml.

Propoxyphene (PPX)

Propoxyphene (PPX) is a narcotic analgesic compound bearing structural similarity to methadone. As an analgesic, propoxyphene can be from 50-75% as potent as oral codeine. Darvocet™, one of the most common brand names for the drug, contains 50-100 mg of propoxyphene napsylate and 325-650 mg of acetaminophen. Peak plasma concentrations of propoxyphene are achieved from 1 to 2 hours post dose. In the case of overdose, propoxyphene blood concentrations can reach significantly higher levels.
In humans, propoxyphene is metabolized by N-demethylation to yield norpropoxyphene. Norpropoxyphene has a longer half-life (30 to 36 hours) than parent propoxyphene (6 to 12 hours).The accumulation of norpropoxyphene seen with repeated doses may be largely responsible for resultant toxicity.
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of Propoxyphene or Norpropoxyphene in whole blood/serum/plasma exceeds 100ng/ml.

Tricyclic Antidepressants (TCA)

TCA (Tricyclic Antidepressants) are commonly used for the treatment of depressive disorders. TCA overdoses can result in profound CNS depression, cardiotoxicity and anticholinergic effects. TCA overdose is the most common cause of death from prescription drugs. TCAs are taken orally or sometimes by injection. TCAs are metabolized in the liver. Both TCAs and their metabolites are excreted in whole blood/serum/plasma mostly in the form of metabolites for up to ten days.
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of tricyclic antidepressants in whole blood/serum/plasma exceeds 100ng/ml.

Oxycodone (OXY)

Oxycodone is a semi-synthetic opioid with a structural similarity to codeine. The drug is manufactured by modifying thebaine, an alkaloid found in the opium poppy. Oxycodone, like all opiate agonists, provides pain relief by acting on opioid receptors in the spinal cord, brain, and possibly directly in the affected tissues. Oxycodone is prescribed for the relief of moderate to high pain under the well-known pharmaceutical trade names of OxyContin®, Tylox®, Percodan® and Percocet®. While Tylox®, Percodan® and Percocet® contain only small doses of oxycodone hydrochloride combined with other analgesics such as acetaminophen or aspirin, OxyContin consists solely of oxycodone hydrochloride in a time-release form. Oxycodone is known to metabolize by demethylation into oxymorphone and noroxycodone. In a 24-hour whole blood or serum or plasma, 33-61% of a single, 5 mg oral dose is excreted with the primary constituents being unchanged drug (13-19%), conjugated drug (7-29%) and conjugated oxymorphone (13-14%). The window of detection for Oxycodone in whole blood/serum/plasma is expected to be similar to that of other opioids such as morphine.
The Multi-Drug Rapid Test Cassette yields a positive result when Oxycodone in whole blood/serum/plasma exceeds 20ng/ml.

2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)

Methadone is an unusual drug in that its primary urinary metabolites (EDDP and EMDP) are cyclic in structure, making them very difficult to detect using immunoassays targeted to the native compound.[9]Exacerbating this problem, there is a subsection of the population classified as "extensive metabolizers" of methadone. In these individuals, a whole blood or serum or plasma specimen may not contain enough parent methadone to yield a positive drug screen even if the individual is in compliance with their methadone maintenance. EDDP represents a better whole blood or serum or plasma marker for methadone maintenance than unmetabolized methadone.
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of EDDP in whole blood/serum/plasma exceeds 50ng/ml.

Cotinine (COT10)

Cotinine is the first-stage metabolite of nicotine, a toxic alkaloid that produces stimulation of the autonomic ganglia and central nervous system when in humans. Nicotine is a drug to which virtually every member of a tobacco-smoking society is exposed whether through direct contact or second-hand inhalation. In addition to tobacco, nicotine is also commercially available as the active ingredient in smoking replacement therapies such as nicotine gum, transdermal patches and nasal sprays.
In a 24-hour whole blood/serum/plasma, approximately 5% of a nicotine dose is excreted as unchanged drug with 10% as cotinine and 35% as hydroxy cotinine; the concentrations of other metabolites are believed to account for less than 5%.[10] While cotinine is thought to be an inactive metabolite, it's elimination profile is more stable than that of nicotine which is largely whole blood/serum/plasma pH dependent. As a result, cotinine is considered a good biological marker for determining nicotine use. The plasma half-life of nicotine is approximately 60 minutes following inhalation or parenteral administration.[11] Nicotine and cotinine are rapidly eliminated by the kidney; the window of detection for cotinine in whole blood/serum/plasma at a cutoff level of 100 ng/ml is expected to be up to 2-3 days after nicotine use.
The COT Rapid Test Cassette (whole blood/serum/plasma) is a rapid whole blood/serum/plasma -screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of Cotinine in whole blood or serum or plasma. The COT Rapid Test Cassette (whole blood/serum/plasma) yields a positive result when the Cotinine in whole blood/serum/plasma exceeds the cut-off level (10ng/ml).

Cotinine(COT100)

The Cotinine assay contained within the Multi-Drug Rapid Test Cassette yields a positive result when the Cotinine concentration in whole blood/serum/plasma exceeds 100ng/ml. See Cotinine (COT10ng)for the summary.

Tramadol(TML)

Tramadol(TML) is a quasi-narcotic analgesic used in the treatment of moderate to severe pain. It is a synthetic analog of codeine, but has a low binding affinity to the mu-opioid receptors. Large doses of tramadol can develop tolerance and physiological dependency and lead to its abuse. Tramadol is extensively metabolized after oral administration. Approximately 30% of the dose is excreted in whole blood or serum or plasma as unchanged drug, whereas 60% is excreted as metabolites. The major pathways appear to be N- and O- demethylation, glucoronidation or sulfation in the liver.
The Multi-Drug Rapid Test Cassette yields a positive result when the concentration of TML in whole blood/serum/plasma exceeds 50ng/ml.

Fentanyl(FYL)

Fentanyl, belongs to powerful narcotics analgesics, and is a μ special opiates receptor stimulant. Fentanyl is one of the varieties that been listed in management of United Nations "Single Convention of narcotic drug in 1961". Among the opiates agents that under international control, fentanyl is one of the most commonly used to cure moderate to severe pain1. After continuous injection of fentanyl, the sufferer will have the performance of protracted opioid abstinence syndrome, such as ataxia and irritability etc[10,11], which presents the addiction after taking fentanyl in a long time. Compared with drug addicts of amphetamine, drug addicts who take fentanyl mainly have got the possibility of higher infection rate of HIV, more dangerous injection behavior and more lifelong medication overdose[12].
The FYL Rapid Test Cassette (whole blood/serum/plasma) is a rapid whole blood/serum/plasma screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of Norfentanyl in whole blood/serum/plasma. The FYL Rapid Test Cassette (whole blood/serum/plasma) yields a positive result when Norfentanyl in whole blood/serum/plasma exceeds 15ng/ml.

3,4-methylenedioxypyrovalerone(MDPV)

3, 4-methylenedioxypyrovalerone (MDPV) is a psychoactive recreational drug with stimulant properties which acts as a norepinephrine-dopamine reuptake inhibitor (NDRI). It was first developed in the 1960s by a team at Boehringer Ingelheim. MDPV remained an obscure stimulant until around 2004 when it was reportedly sold as a designer drug. Products labeled as bath salts containing MDPV were previously sold as recreational drugs in gas stations and convenience stores in the United States, similar to the marketing for Spice and K2 as incense.
MDPV is the 3,4-methylenedioxy ring-substituted analog of the compound pyrovalerone, developed in the 1960s, which has been used for the treatment of chronic fatigue and as an anorectic, but caused problems of abuse and dependence. However, despite its structural similarity, the effects of MDPV bear little resemblance to other methylenedioxy phenylalkylamine derivatives such as 3,4-methylenedioxy-N-methylamphetamine (MDMA), instead producing primarily stimulant effects with only mild entactogenic qualities.
MDPV undergoes CYP450 2D6, 2C19, 1A2, and COMT phase 1 metabolism (liver) into methylcatechol and pyrrolidine, which in turn are glucuronated (uridine 5'-diphospho-glucuronosyl-transferase) allowing it to be excreted by the kidneys, with only a small fraction of the metabolites being excreted into the stools. No free pyrrolidine will be detected in the whole blood/serum/plasma.
The MDPV Rapid Test Cassette is a rapid blood screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of 3,4-methylenedioxypyrovalerone in whole blood or serum or plasma. The MDPV Rapid Test Cassette yields a positive result when 3,4-methylenedioxypyrovalerone in whole blood/serum/plasma fexceeds 300ng/ml.

Synthetic Marijuana(K2)

Synthetic Marijuana or K2 is a psychoactive herbal and chemical product that, when consumed, mimics the effects of Marijuana. It is best known by the brand names K2 and Spice, both of which have largely become genericized trademarks used to refer to any synthetic Marijuana product. The studies suggest that synthetic marijuana intoxication is associated with acute psychosis, worsening of previously stable psychotic disorders, and also may have the ability to trigger a chronic (long-term) psychotic disorder among vulnerable individuals such as those with a family history of mental illness. Elevated levels of whole blood/serum/plasma metabolites are found within hours of exposure and remain detectable window up to 24-48 hours after smoking (depending on usage/dosage).
The K2 assay contained within the Multi-Drug Rapid Test Cassette yields a positive result when the K2 concentration in whole blood/serum/plasma exceeds 100ng/ml.

Phencyclidine(PCP)

Phencyclidine, the hallucinogen commonly referred to as Angel Dust, can be detected in whole blood/serum/plasma as a result of the exchange of the drug between the circulatory system and the oral cavity. In a paired serum and whole blood/serum/plasma collection of 100 patients in an Emergency Department, PCP was detected in the whole blood/serum/plasma of 79 patients at levels as low as 2ng/ml and as high as 600ng/ml.
The PCP assay contained within the Multi-Drug Rapid Test Cassette yields a positive result when the PCP concentration in whole blood/serum/plasma exceeds 20ng/ml.

Ketamine (KET)

Ketamine is a dissociative anesthetic developed in 1963 to replace PCP (Phencyclidine). While Ketamine is still used in human anesthesia and veterinary medicine, it is becoming increasingly abused as a street drug. Ketamine is molecularly similar to PCP and thus creates similar effects including numbness, loss of coordination, sense of invulnerability, muscle rigidity, aggressive/violent behavior, slurred or blocked speech, exaggerated sense of strength, and a blank stare. There is depression of respiratory function but not of the central nervous system, and cardiovascular function is maintained. The effects of Ketamine generally last 4-6 hours following use.
The KET assay contained within the Multi-Drug Rapid Test cassette yields a positive result when the KET concentration in whole blood/serum/plasma exceeds 50ng/ml.

Lysergic acid diethylamide (LSD)

Lysergic acid diethylamide (LSD) is a white powder or a clear, colorless liquid. LSD is manufactured from lysergic acid which occurs naturally in the ergot fungus that grows on wheat and rye. It is a Schedule I controlled substance, available in liquid, powder, tablet (microdots), and capsule form. LSD is recreationally used as a hallucinogen for its ability to alter human perception and mood. LSD is primarily used by oral administration, but can be inhaled, injected, and transdermally applied. LSD is a non-selective 5-HT agonist, may exert its hallucinogenic effect by interacting with 5-HT 2 Areceptors as a partial agonist and modulating the NMDA receptor-mediated sensory, perceptual, affective and cognitive processes. LSD mimics 5-HT at 5-HT 1A receptors, producing a marked slowing of the firing rate of serotonergic neurons. LSD has a plasma half-life of 2.5-4 hours. Metabolites of LSD include N-desmethyl-LSD, hydroxy-LSD, 2-oxo-LSD, and 2-oxo-3-hydroxy-LSD .These metabolites are all inactive.
The LSD Rapid Test Cassette(whole blood/serum/plasma) is a rapid whole blood/serum/plasma screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of Lysergic Acid Diethylamide in whole blood/serum/plasma. The LSD Rapid Test Cassette(whole blood/serum/plasma)yields a positive result when Lysergic Acid Diethylamide in whole blood/serum/plasma exceeds 20 ng/mL.

3,4-Methylenedioxyamphetamine (MDA)

3,4-Methylenedioxyamphetamine (MDA), also known as tenamfetamine (INN), or with the street name "Sally" or "Sass" or "Sass-a-frass", is a psychedelic and entactogenic drug of the phenethylamine and amphetamine chemical classes. It is mainly used as a recreational drug, an entheogen, and a tool in use to supplement various types of practices for transcendence, including in meditation, psychonautics, and as an agent in psychedelic psychotherapy. It was first synthesized by G. Mannish and W. Jacobson in 1910. There are about 20 different synthetic routes described in the literature for its preparation.
The MDA Rapid Test Cassette (whole blood/serum/plasma) is a rapid whole blood/serum/plasma screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of 3,4-Methylenedioxyamphetamine in whole blood/serum/plasma. The MDA Rapid Test Cassette (whole blood/serum/plasma) yields a positive result when Amphetamines in whole blood/serum/plasma exceed 80 ng/mL.

PRINCIPLE

During testing, a whole blood/serum/plasma specimen migrates upward by capillary action. A drug, if present in the whole blood/serum/plasma specimen below its cut-off concentration, will not saturate the binding sites of its specific antibody. The antibody will then react with the drug-protein conjugate and a visible colored line will show up in the test region of the specific drug cassette. The presence of drug above the cut-off concentration will saturate all the binding sites of the antibody. Therefore, the colored line will not form in the test region.
A drug-positive whole blood/serum/plasma specimen will not generate a colored line in the specific test region of the cassette because of drug competition, while a drug-negative whole blood/serum/plasma specimen will generate a line in the test region because of the absence of drug competition.
To serve as a procedural control, a colored line will always appear at the control region, indicating that proper volume of specimen has been added and membrane wicking has occurred.

REAGENTS

Each test line contains anti-drug mouse monoclonal antibody and corresponding drug-protein conjugates. The control line system contains goat anti-rabbit IgG polyclonal antibodies and rabbit IgG.

PRECAUTIONS

- For professional in vitro diagnostic use only. Do not use after the expiration date.
- Do not eat, drink or smoke in the area where the specimens or kits are handled.
- Do not use test if pouch is damaged
- Handle all specimens as if they contain infectious agents. Observe established precautions against microbiological hazards throughout testing and follow the standard procedures for proper disposal of specimens.
- Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are being tested.
- The used test should be discarded according to local regulations.
- Humidity and temperature can adversely affect results.

STORAGE AND STABILITY

Store as packaged in the sealed pouch at room temperature or refrigerated (2-30℃). The test is stable through the expiration date printed on the sealed pouch. The test must remain in the sealed pouch until use. **DO NOT FREEZE.** Do not use beyond the expiration date.

SPECIMEN COLLECTION AND PREPARATION

- The Multi-Drug Rapid Test Cassette can be performed using whole blood or serum or plasma (from venipuncture or fingerstick).
- To collect **Fingerstick Whole blood specimens**:
  - Wash the patient's hand with soap and warm water or clean with an alcohol swab. Allow to dry.
  - Massage the hand without touching the puncture site by rubbing down the hand towards the fingertip of the middle or ring finger.
  - Puncture the skin with a sterile lancet. Wipe away the first sign of blood.
  - Gently rub the hand from wrist to palm to finger to form a rounded drop of blood over the puncture site.
  - Add the Fingerstick Whole blood specimen to the test by using **a capillary tube**:
    - Touch the end of the capillary tube to the blood until filled to approximately 40μL. Avoid air bubbles.
    - Place the bulb onto the top end of the capillary tube, then squeeze the bulb to dispense the whole blood to the specimen area of the test cassette.
- Testing should be performed immediately after the specimens have been collected. Do not leave the specimens at room temperature for prolonged periods. For long term storage, specimens should be kept below -20℃. Whole blood collected by venipuncture should be stored at 2-8℃ if the test is to be run within 2 days of collection. Do not freeze whole blood specimens. Whole blood collected by fingerstick should be tested immediately.
- Bring specimens to room temperature prior to testing. Frozen specimens must be completely thawed and mixed well prior to testing. Specimens should not be frozen and thawed repeatedly.
- If specimens are to be shipped, they should be packed in compliance with local regulations covering the transportation of etiologic agents.

MATERIALS

Materials Provided

• Test cassettes • Droppers • Buffer • Package insert

Materials Required But Not Provided

• Specimen collection containers • Centrifuge
• Lancets (for fingerstick whole blood only) • Timer
• Heparinized capillary tubes and dispensing bulb (for fingerstick whole blood only)

DIRECTIONS FOR USE

Allow the test, specimen, buffer and/or controls to reach room temperature (15-30℃) prior to testing.

For serum or plasma specimen:

1. Bring the pouch to room temperature (15-30℃) before opening it. Remove the cassette from the sealed pouch and use it within one hour.
2. Place the cassette on a clean and level surface. Hold the dropper vertically and transfer 1 full drop of serum or plasma (approximately 40ul), then add 2 drops of buffer (approximately 80 μl) to the

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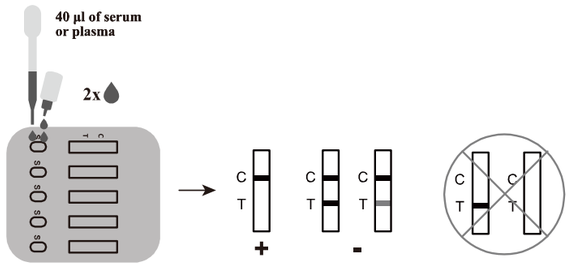
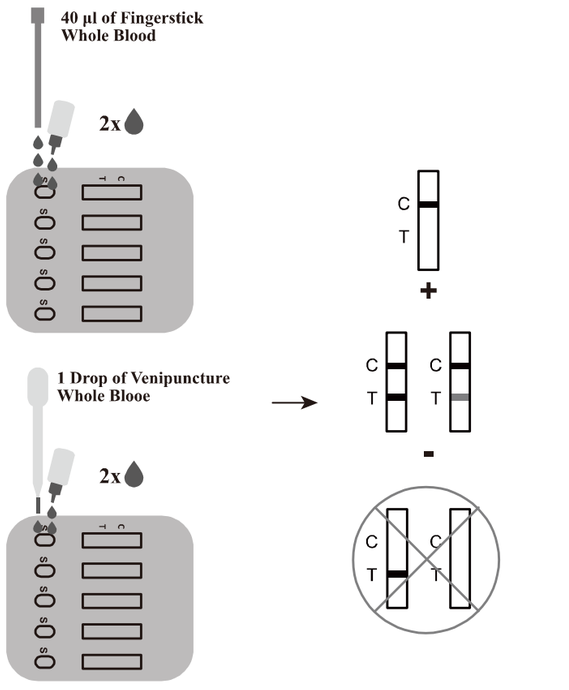
specimen well of the cassette, and then start the timer. Avoid trapping air bubbles in the specimen well. See illustration below.
3. Wait for the colored line(s) to appear. **Read the result at 5 minutes** when testing a serum or plasma specimen. Do not interpret the result after 10 minutes.



For whole blood specimen:
1. Bring the pouch to room temperature before opening it. Remove the test cassette from the sealed pouch and use it within one hour.
2. Place the cassette on a clean and level surface.
   For Venipuncture Whole blood specimen:
   Hold the dropper vertically and transfer **1 drop of whole blood** (approximately 40 µl) to the specimen well, then add **2 drops of buffer** (approximately 80 µl), and start the timer. See illustration below.
   For Fingerstick Whole blood specimen:
   To use a capillary tube: Fill the capillary tube and transfer approximately **40µl of fingerstick whole blood** specimen to the specimen area of test cassette, then add **2 drops of buffer** (approximately 80 µl) and start the timer. See illustration below.
4. Wait for the colored line(s) to appear. **Read results at 5 minutes**. Do not interpret the result after 10 minutes.



INTERPRETATION OF RESULTS

(Please refer to the illustration above)
NEGATIVE:* A colored line appears in the Control region (C) and colored lines appears in the Test region (T). This negative result means that the concentrations in the whole blood/serum/plasma sample are below the designated cut-off levels for a particular drug tested.
***NOTE:** The shade of the colored lines(s) in the Test region (T) may vary. The result should be considered negative whenever there is even a faint line.
POSITIVE: A colored line appears in the Control region (C) and NO line appears in the Test region (T). The positive result means that the drug concentration in the whole blood/serum/plasma is greater than the designated cut-off for a specific drug.
INVALID: No line appears in the Control region (C). Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for Control line failure. Read the directions again and repeat the test with a new test card. If the result is still invalid, contact your manufacturer.

QUALITY CONTROL

A procedural control is included in the test. A colored line appearing in the control region (C) is the internal procedural control. It confirms sufficient specimen volume and correct procedural technique. Control standards are not supplied with this kit; however, it is recommended that positive and negative controls be tested as a good laboratory practice to confirm the test procedure and to verify proper test performance.

LIMITATIONS

1. The Multi-Drug Rapid Test Cassette (whole blood/serum/plasma) provides only a qualitative, preliminary analytical result. A secondary analytical method must be used to obtain a confirmed result. Gas chromatography/ mass spectrometry (GC/MS) is the preferred confirmatory method[13,14]
2. It is possible that technical or procedural errors, as well as other interfering substances in the whole blood or serum or plasma specimen may cause erroneous results.
3. A positive result indicates presence of the drug or its metabolites but does not indicate level of intoxication, administration route or concentration in whole blood or serum or plasma.
4. A negative result may not necessarily indicate drug-free whole blood/serum/plasma. Negative results can be obtained when drug is present but below the cut-off level of the test.
5. Test does not distinguish between drugs of abuse and certain medications.

PERFORMANCE CHARACTERISTICS

Accuracy
A side-by-side comparison was conducted using the Multi-Drug Rapid Test Cassette and commercially available drug rapid tests. Testing was performed on approximately 90 specimens per drug type previously collected from subjects presenting for Drug Screen Testing, Except TML who was 97 specimens, Presumptive positive results were confirmed by GC/MS.

Clinic Result of Whole Blood

Method		GC/MS		
Multi-Drug Rapid Test Cassette		Positive	Negative	% agreement with GC/MS
AMP	Positive	20	1	95.2%
	Negative	1	68	98.6%
BAR	Positive	20	2	90.9%
	Negative	2	66	97.1%
BZO	Positive	19	2	90.5%
	Negative	2	67	97.1%
BUP	Positive	21	2	95.5%
	Negative	1	66	97.1%
COC	Positive	25	1	96.2%
	Negative	1	63	98.4%
THC	Positive	24	1	92.3%
	Negative	2	63	98.4%
MTD	Positive	19	2	95.0%
	Negative	1	68	97.1%
MET	Positive	25	2	92.6%
	Negative	2	61	96.8%
MDMA	Positive	20	2	90.9%
	Negative	2	66	97.1%
MOP/OPI	Positive	23	2	92.0%
	Negative	2	63	96.9%
PPX	Positive	24	2	96.0%
	Negative	1	63	96.9%
TCA	Positive	23	2	92.0%
	Negative	2	63	96.9%
OXY	Positive	27	2	93.1%
	Negative	2	59	96.7%
COT 100	Positive	23	1	92.0%
	Negative	2	64	98.5%
COT 10	Positive	23	2	95.8%
	Negative	1	64	97.0%
EDDP	Positive	18	2	90.0%
	Negative	2	68	97.1%
TML	Positive	19	1	90.5%
	Negative	2	75	98.7%
MDPV	Positive	18	3	90.0%
	Negative	2	67	95.7%
FYL	Positive	24	1	92.3%
	Negative	2	63	98.4%
K2	Positive	21	2	91.3%
	Negative	2	65	97.0%
PCP	Positive	21	1	95.5%
	Negative	1	67	98.5%
KET	Positive	24	3	92.3%
	Negative	2	61	95.3%
LSD	Positive	20	1	95.2%
	Negative	1	69	98.6%
MDA	Positive	23	1	95.8%
	Negative	1	68	98.6%

Clinic Result of Serum or Plasma

Method		GC/MS		
Multi-Drug Rapid Test Cassette		Positive	Negative	% agreement with GC/MS
AMP	Positive	20	1	95.2%
	Negative	1	68	98.6%
BAR	Positive	20	2	90.9%
	Negative	2	66	97.1%
BZO	Positive	19	2	90.5%
	Negative	2	67	97.1%
BUP	Positive	21	2	95.5%
	Negative	1	66	97.1%
COC	Positive	25	1	96.2%
	Negative	1	63	98.4%
THC	Positive	24	1	92.3%
	Negative	2	63	98.4%
MTD	Positive	19	2	95.0%
	Negative	1	68	97.1%
MET	Positive	25	2	92.6%
	Negative	2	61	96.8%
MDMA	Positive	20	2	90.9%
	Negative	2	66	97.1%
MOP/OPI	Positive	23	2	92.0%
	Negative	2	63	96.9%
PPX	Positive	24	2	96.0%
	Negative	1	63	96.9%
TCA	Positive	23	2	92.0%
	Negative	2	63	96.9%
OXY	Positive	27	2	93.1%
	Negative	2	59	96.7%
COT 100	Positive	23	1	92.0%
	Negative	2	64	98.5%
COT 10	Positive	23	2	95.8%
	Negative	1	64	97.0%
EDDP	Positive	18	2	90.0%
	Negative	2	68	97.1%
TML	Positive	19	1	90.5%
	Negative	2	75	98.7%
MDPV	Positive	18	3	90.0%
	Negative	2	67	95.7%
FYL	Positive	24	1	92.3%
	Negative	2	63	98.4%
K2	Positive	21	2	91.3%
	Negative	2	65	97.0%
PCP	Positive	21	1	95.5%
	Negative	1	67	98.5%
KET	Positive	24	3	92.3%
	Negative	2	61	95.3%
LSD	Positive	20	1	95.2%
	Negative	1	69	98.6%
MDA	Positive	23	1	95.8%
	Negative	1	68	98.6%

Precision
A study was conducted at three hospitals by untrained operators using three different lots of product to demonstrate the within run, between run and between operator precision. An identical card of coded specimens, containing drugs at concentrations of ± 50% cut-off level, was labeled, blinded and tested at each site. The results are given below:

AMPHETAMINE (AMP)

Amphetamine Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
40	10	8	2	9	1	9	1
120	10	1	9	1	9	2	8

BARBITURATES (BAR)

Secobarbital Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
50	10	8	2	9	1	9	1
150	10	1	9	1	9	2	8

BENZODIAZEPINES (BZO)

Benzodiazepines Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
50	10	8	2	9	1	9	1
150	10	1	9	1	9	2	8

BUPRENORPHINE (BUP)

Buprenorphine Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
2.5	10	8	2	9	1	9	1
7.5	10	1	9	1	9	2	8

COCAINE (COC)

Benzoylecgonine Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
25	10	8	2	9	1	9	1
75	10	1	9	1	9	2	8

MARIJUANA (THC)

Marijuana Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
17.5	10	8	2	9	1	9	1
52.5	10	1	9	1	9	2	8

METHADONE (MTD)

Methadone Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
20	10	8	2	9	1	9	1
60	10	1	9	1	9	2	8

METHAMPHETAMINE (MET)

Methamphetamine Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
35	10	8	2	9	1	9	1
105	10	1	9	1	9	2	8

METHYLENEDIOXYMETHAMPHETAMINE (MDMA) Ecstasy

MDMA Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
25	10	8	2	9	1	9	1
75	10	1	9	1	9	2	8

MORPHINE/Opiate (MOP/OPI)

Morphine/Opiate Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
20	10	8	2	9	1	9	1
60	10	1	9	1	9	2	8

PROPOXYPHENE (PPX)

Propoxyphene Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
50	10	8	2	9	1	9	1
150	10	1	9	1	9	2	8

TRICYCLIC ANTIDEPRESSANTS (TCA)

TCA Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
150	10	8	2	9	1	9	1
450	10	1	9	1	9	2	8

Oxycodone (OXY)

Oxycodone Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
10	10	8	2	9	1	9	1
30	10	1	9	1	9	2	8

COTININE (COT 10)

COT Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
5	10	8	2	9	1	9	1
15	10	1	9	1	9	2	8

COTININE (COT 100)

COT Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
50	10	8	2	9	1	9	1
150	10	1	9	1	9	2	8

2-ETHYLIDENE-1,5-DIMETHYL-3,3-DIPHENYLPYRROLIDINE (EDDP)

EDDP Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
25	10	8	2	9	1	9	1
75	10	1	9	1	9	2	8

TRAMADOL (TML)

Tramadol Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
25	10	10	0	10	0	10	0
75	10	0	10	0	10	0	10

Fentanyl (FYL)

Fentanyl Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
7.5	10	8	2	9	1	9	1
22.5	10	1	9	1	9	2	8

3,4-methylenedioxypyrovalerone (MDPV)

MDPV Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
150	10	8	2	9	1	9	1
450	10	1	9	1	9	2	8

Synthetic Marijuana (K2)

K2 Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
50	10	8	2	9	1	9	1
150	10	1	9	1	9	2	8

Phencyclidine (PCP)

PCP Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
10	10	8	2	9	1	9	1
30	10	1	9	1	9	2	8

Ketamine (KET)

KET Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
100	10	9	1	9	1	9	1
300	10	1	9	1	9	1	9

Lysergic acid diethylamide (LSD)

LSD Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
100	10	8	2	9	1	9	1
300	10	1	9	1	9	2	8

3,4-Methylenedioxyamphetamine (MDA)

MDA Concentration (ng/ml)	n per Site	Site A		Site B		Site C	
		-	+	-	+	-	+
0	10	10	0	10	0	10	0
100	10	8	2	9	1	9	1
300	10	1	9	1	9	2	8

Analytical Sensitivity
A drug-free whole blood/serum/plasma pool was spiked with drugs at the listed concentrations. The results are summarized below.
For whole blood:

Drug Concentration Cut-off Range	AMP		BAR		BZO		BUP		COC		THC		MTD	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
Cut-off	15	15	16	14	15	15	14	16	13	17	15	15	15	15
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	MET		MDMA		MOP/OPI		PPX		TCA		FYL		MDPV	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
Cut-off	14	16	15	15	15	15	14	16	15	15	15	15	15	15
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

IVD
CITEST DIAGNOSTICS INC.
170-422 Richards Street
Vancouver BC, V6B 2Z4, Canada
CE EC REP
CMC MEDICAL DEVICES & DRUGS, S.L.
C/ Horacio Lengo Nº 18, CP 29006, Málaga-Spain

Drug Concentration Cut-off Range	OXY		COT10		COT100		EDDP		TML		K2		PCP		KET	
	-	+	-	+	-	+		+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
Cut-off	15	15	15	15	14	16	15	15	15	15	15	15	15	15	15	15
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

For serum or plasma:

Drug Concentration Cut-off Range	AMP		BAR		BZO		BUP		COC		THC		MTD	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
Cut-off	15	15	16	14	15	15	14	16	13	17	15	15	15	15
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	MET		MDMA		MOP/OPI		PPX		TCA		FYL		MDPV	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
Cut-off	14	16	15	15	15	15	14	16	15	15	15	15	15	15
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	OXY		COT10		COT100		EDDP		TML		K2		PCP		KET	
	-	+	-	+	-	+		+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
Cut-off	15	15	15	15	14	16	15	15	15	15	15	15	15	15	15	15
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	LSD		MDA	
	-	+	-	+
0% Cut-off	30	0	30	0
-50% Cut-off	30	0	30	0
Cut-off	15	15	15	15
+50% Cut-off	0	30	0	30
+300% Cut-off	0	30	0	30

Analytical Specificity

The following table lists the concentrations of compounds (ng/ml) that are detected as positive in whole blood or serum or plasma by the Multi-Drug Rapid Test Cassette at 5 minutes.

Analytes	**Concentration (ng/ml)**	**Analytes**	**Concentration (ng/ml)**
AMPHETAMINE (AMP)			
D,L-Amphetamine sulfate	20	Phentermine	150
L-Amphetamine	3,000	Maprotiline	6,000
(±) 3,4-Methylenedioxy amphetamine	40	Methoxyphenamine	1,500
		D-Amphetamine	80
BARBITURATES (BAR)			
Amobarbital	1,500	Alphenol	200
5,5-Diphenylhydantoin	2,500	Aprobarbital	150
Allobarbital	200	Butabarbital	80
Barbital	2,500	Butalbital	2,500
Talbutal	80	Butethal	150
Cyclopentobarbital	10,000	Secobarbital	100
Pentobarbital	2,500		
BENZODIAZEPINES (BZO)			
Alprazolam	40	Bromazepam	300
a-hydroxyalprazolam	500	Chlordiazepoxide	300
Clobazam	60	Nitrazepam	60
Clonazepam	150	Norchlordiazepoxide	40
Clorazepate dipotassium	150	Nordiazepam	300
Delorazepam	300	Oxazepam	100
Desalkylflurazepam	60	Temazepam	40
Flunitrazepam	60	Diazepam	100
(±) Lorazepam	1,000	Estazolam	2,000
RS-Lorazepam glucuronide	60	Triazolam	1,000
Midazolam	2,000	Alprazolam	40
BUPRENORPHINE (BUP)			
Buprenorphine	5	Norbuprenorphine	30
Buprenorphine 3-D-Glucuronide	30	Norbuprenorphine 3-D-Glucuronide	50
COCAINE (COC)			
Benzoylecgonine	50	Cocaethylene	5,000
Cocaine HCl	60	Ecgonine	7,500
MARIJUANA (THC)			
Cannabinol	25,000	∆8-THC	12,000
11-nor-∆8-THC-9 COOH	25	∆9-THC	12,000
11-nor-∆9-THC-9 COOH	35		
METHADONE (MTD)			
Methadone	40	Doxylamine	13,000
METHAMPHETAMINE (MET)			
p-Hydroxymethamphetamine	1,800	(±)-3,4-Methylenedioxy-methamphetamine	900
D-Methamphetamine	70		
L-Methamphetamine	1,500	Mephentermine	3,500
METHYLENEDIOXYMETHAMPHETAMINE (MDMA) Ecstasy			
(±)3,4-Methylenedioxymetha-mphetamine HCl	50	3,4-Methylenedioxyethyl-amphetamine	40
(±) 3,4-Methylenedioxyamphetamine HCl	300		
MORPHINE/Opiate (MOP/OPI)			
Codeine	50	Norcodeine	500
Levorphanol	200	Normorphone	5,000
Morphine-3-β-D-Glucuronide	120	Oxycodone	4,000
Ethylmorphine	500	Oxymorphone	500
Hydrocodone	5,000	Procaine	1,500
Hydromorphone	300	Thebaine	500
6-Monoacethylmorphine	100	Morphine	40

PROPOXYPHENE (PPX)			
D-Propoxyphene	100	**D-Norpropoxyphene**	100
TRICYCLIC ANTIDEPRESSANTS (TCA)			
Nortriptyline	300	Imipramine	140
Nordoxepine	150	Clomipramine	18,000
Trimipramine	1,300	Doxepine	600
Amitriptyline	600	Maprotiline	600
Promazine	1,300	Promethazine	18,000
Desipramine	80	Perphenazine	18,000
Cyclobenzaprine	600		
Oxycodone (OXY)			
Oxycodone	20	Hydromorphone	10,000
Oxymorphone	60	Naloxone	5,000
Levorphanol	10,000	Naltrexone	5,000
Hydrocodone	5,000		
Cotinine (COT 10)			
(-)-Cotinine	10	(-)-Nicotine	250
Cotinine (COT 100)			
(-)-Cotinine	100	(-)-Nicotine	2,500
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)			
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)			50
Tramadol (TML)			
n-Desmethyl-cis-tramadol	100	o-Desmethyl-cis-tramadol	5,000
Cis-tramadol	50	Phencyclidine	50,000
Procyclidine	50	d,l-O-Desmethyl venlafaxine	25,000
Fentanyl(FYL)			
Alfentanyl	450,000	Norfentany	15
Fenfluramine	40,000	Buspirone	12,000
Fentanyl	75	Sufentanyl	40,000
3,4-methylenedioxypyrovalerone(MDPV)			
3,4-methylenedioxypyrovalerone	300		
Synthetic Marijuana(K2)			
JWH-018 5-Pentanoic acid metabolite	100	JWH-073 4-butanoic acid metabolite	100
JWH-018 4-Hydroxypentyl metabolite	800	JWH-018 5-Hydroxypentyl metabolite	1,000
JWH-073 4-Hydroxybutyl metabolite	1,000		
Phencyclidine(PCP)			
Phencyclidine	20	4-Hydroxyphencyclidine	5,000
Ketamine(KET)			
Ketamine	200	Tetrahydrozoline	100
Benzphetamine	5,000	d-Methamphetamine	10,000
(+) Chlorpheniramine	5,000	l-Methamphetamine	10,000
Clonidine	2,000	Methoxyphenamine	5,000
Dextromethorphan	400	(+)3,4-Methylendioxymeth amphetamine (MDMA)	20,000
Disopyramide	5,000	d-Norpropoxyphene	5,000
EDDP	10,000	Pentazocine	5,000
Mephentermine	5,000	Phencyclidine	5,000
(1R, 2S) - (-)-Ephedrine	20,000	Promazine	5,000
4-Hydroxyphencyclidine	10,000	Promethazine	5,000
Levorphanol	10,000	Thioridazine	10,000
MDE	10,000	Meperidine	5,000
Lysergic Acid Diethylamide(LSD)			
Lysergic Acid Diethylamide	20		
3,4-Methylenedioxyamphetamine(MDA)			
D,L-Amphetamine sulfate	40	(±)-3,4-Methylenedioxy-methamphetamine	80
L-Amphetamine	6,000		
Phentermine	300	Maprotiline	12,000
Methoxyphenamine	3,000	D-Amphetamine	160

Cross-Reactivity

A study was conducted to determine the cross-reactivity of the test with compounds in either drug-free whole blood /serum/ plasma or drug positive whole blood/serum /plasma containing, Amphetamine, Barbiturates, Benzodiazepines, Buprenorphine, Cocaine, Marijuana, Methadone, Methamphetamine, Methylenedioxymethamphetamine, Morphine, Propoxyphene, Tricyclic Antidepressants, Cotinine, EDDP ,KETand TML. The following compounds show no cross-reactivity when tested with the Multi-Drug Rapid Test Cassette at a concentration of 100 μg/ml.

Non Cross-Reacting Compounds

Acetophenetidin	Cortisone	Zomepirac	d-Pseudoephedrine
N-Acetylprocainamide	Creatinine	Ketoprofen	Quinidine
Acetylsalicylic acid	Deoxycorticosterone	Labetalol	Quinine
Aminopyrine	Dextromethorphan	Loperamide	Salicylic acid
Amoxicillin	Diclofenac	Meprobamate	Serotonin
Ampicillin	Diflunisal	Methoxyphenamine	Sulfamethazine
l-Ascorbic acid	Digoxin	Methylphenidate	Sulindac
Apomorphine	Diphenhydramine	Nalidixic acid	Tetracycline
Aspartame	Ethyl-p-aminobenzoate	Naproxen	Tetrahydrocortisone,
Atropine	β-Estradiol	Niacinamide	3-acetate
Benzilic acid	Estrone-3-sulfate	Nifedipine	Tetrahydrocortisone
Benzoic acid	Erythromycin	Norethindrone	Tetrahydrozoline
Bilirubin	Fenoprofen	Noscapine	Thiamine
d,l-Brompheniramine	Furosemide	d,l-Octopamine	Thioridazine
Caffeine	Gentisic acid	Oxalic acid	d,l-Tyrosine
Cannabidiol	Hemoglobin	Oxolinic acid	Tolbutamide
Chloral hydrate	Hydralazine	Oxymetazoline	Triamterene
Chloramphenicol	Hydrochlorothiazide	Papaverine	Trifluoperazine
Chlorothiazide	Hydrocortisone	Penicillin-G	Trimethoprim
d,l-Chlorpheniramine	o-Hydroxyhippuric acid	Perphenazine	d,l-Tryptophan
Chlorpromazine	3-Hydroxytyramine	Phenelzine	Uric acid
Cholesterol	d,l-Isoproterenol	Prednisone	Verapamil
Clonidine	Isoxsuprine	d,l-Propanolol	

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INDEX OF SYMBOLS

IVD	*In vitro* diagnostic medical device
30°C 2°C	Temperature limit
	Do not use if package is damaged and consult instructions for use
REF	Catalogue number
Σ	Contains sufficient for <n> tests
	Use-by date
LOT	Batch code
	Manufacturer
	Do not re-use
	Consult instructions for use or consult electronic instructions for use
	Caution
EC REP	Authorized representative in the European Community

Number: 145499703
Date: 2023-08-07