

Anexa nr.1 la Formularul Specificații tehnice

Analizator hematologic, automat (3diff), tip deschis, 30 probe model CELL-Dyn Emerald (ABBOTT, SUA)

SPECIFICATII TEHNICE SOLICITATE		SPECIFICAȚII TEHNICE OFERTE, model CELL-Dyn Emerald, de producție ABBOTT, SUA.
Descriere	Analizator hematologic automat (3 diff) destinat analizei compoziției sanguine cu sistem deschis de reactivi	CELL-Dyn Emerald – analizor automat de hematologie 3 diff Aparat de sine statator , unitate de masurare fara sursa de alimentare externa sau modul pneumatic extern. Avantaj: Aparatul este foarte mic si compact(poate fi plasat si in biroul medicului)- brosura atasata <ul style="list-style-type: none"> • Rezultat in mai putin de 60 secunde Poate fi programat sa porneasca automat dimineata la o anumita ora si sa se inchida automat seara
Tip sistem	deschis	Sistem deschis care utilizeaza doar 3 reactivi (diluent, liza, cleaner) <ul style="list-style-type: none"> • Cititor de cod de bare extern, in echipare standard • Intretinere zilnica si saptaminala= ZERO
Metode de analiza	3 diff	<ul style="list-style-type: none"> • CD Emerald are la baza tehnologia de impedanta electronica pentru diferentierea RBC si PLT si WBC numar total si Spectrofotometrie.
Procedura de curatire	automata	Mentenanța CELL-Dyn Emerald este automata. Întreținerea zilnică este procedură automată și întreținerea săptămânală automată. Avantaj: Procedurile de intretinere sunt memorate in soft-ul aparatului si pot fi printate pentru documentatia laboratorului.
Parametri determinati si calculati	WBC	DA
	RBC	DA
	HGB	DA
	HCT	DA
	MCV	DA
	MCH	DA
	MCHC	DA
	PLT	DA
	LYM	DA
	MID	DA
	GRA	DA
	LYM%	DA
	MID%	DA
	GRA%	DA
	RDW-SD	RDW
	RDW-CV	
	PDW-SD	PDW
	PDW-CV	
	MPV	DA
	PCT	DA
Capacitate (probe/ora)	>30	Procesare 60 probe/ora
Diluarea	automata	Volumul de proba necesar foarte mic 9.8 uL- de aceea

		nu are nevoie de dilutie automata Avantaj: liniaritate foarte buna pentru WBC, RBC, PLT
Afisaj	grafic	Da, monitor color cu touch screen
Imprimanta	incorporata	Da, aparatul este dotat cu imprimanta
Sistem ID pacient	da	Da, si posibilitate Date demografice <ul style="list-style-type: none"> • datalog numeric • identificare alfanumerica a pacientului PID • identificare alfanumerica a probei SID • data/ora • nume pacient • hemoleucograma 3-part diff • sistem de flag si alerta
Introducerea datelor manual	da	Da
Interfata PC	da	Posibilitate de conectare la internet: (TCP/IP) si RS232
Afisarea histogramelor	da	da
Stocarea datelor	da	<ul style="list-style-type: none"> • Computer intern si nu necesita PC extern; memorie interna cu 15000 ;intre 10.000 si 60.000 prin cablu USB
Calibrarea	automata	da
Histograme	WBC-repartizarea leucocitelor dupa volum	da
	RBC-repartizarea eritrocitelor dupa volum	da
	PLT-repartizarea trombocitelor dupa volum	da
Afisarea pe ecran a tuturor datelor	histograme	da
	rezultate	da
	grafice	da
	rezultate din arhiva	da
	date de service	da
Afisarea rezultatelor pe imprimanta	Parametri determinate si calculati	<ul style="list-style-type: none"> • Da -Aparatul are capacitatea de a accesa si printa datele in orice moment ; Are posibilitate de printare automata si legare la o imprimanta externa • Raportul tiparit (printat) cuprinde: Limitele de referinta cu atentionari (flag) pentru valorile care depasesc limitele stabilite;
	histograme pe parametrii de baza RBC, WBC, PLT	<ul style="list-style-type: none"> • Are trei sisteme de unitati de masura: USA (Standard) , Sistem de Unitati Internationale (SI), SI modificat- mod in mmol. • Operatorul poate defini 4 seturi de valori de referinta
	date despre pacient	da
Indicatori de avertizare	da	<p>Da Avantaj: CELL-Dyn Emerald ofera semnalizarea cu acuratete (flag-uri) pentru depasirea celule anormale sau valori de panica ; Sistem de alerta</p> <ul style="list-style-type: none"> • limite de valori crescute/panica setate de

		<p>operator</p> <ul style="list-style-type: none"> • flag pentru posibile interferente si probe cu anomalii • flag pentru posibila prezenta de populatii anormale in seria alba • valori de referinta definite in sistem
Control calitatii	al in 3 nivele	<p>6 fisiere de control- 3 nivele de control- scazut, normal si crescut , cate 2 din fiecare nivel; Control intern de calitate</p> <ul style="list-style-type: none"> • 6 fisiere de control intern • 100 de teste/ fisier • grafice Levey-Jenings pentru interpretare control intern • posibilitate de incarcare/stergere fisiere control • Capacitatea de a incarca si descarca informatii despre QC Via port USB • Conexiune LIS
	Construirea tabelelor si graficelor Levey Jenings	<p>Da</p> <p>Avantaj: Programul de control intern QC trebuie sa includa 6 fisiere QC cu stocare pentru 100 teste per Fisier</p> <p>Se ofera gratuit posibilitate de control interlaboratoare eQC</p>
Limba de comunicare	rom/rus	rom/rus
Memorie interna	> 500 pacienti	Da - se pot memora pana la 1500 date de pacient cu histograme; Functie de capacitatea USB se poate mari numarul de date pacient stocate pana la 60000 fisiere
Accesorii	Vas pentru deseuri	<p>Aparatul poate utiliza orice vas pentru deseuri-</p> <p>Avantaj- Aparatul adapteaza orice vas si se mentioneaza capacitatea acestuia in analizor- 1L, 5L, 10L apoi analizorul calculeaza waste-ul si avertizeaza ca vasul de deseuri este plin.</p>
	tuburi pentru reagenti	Da
	tuburi pentru spalare	da
		<p>Avantaj: Aparatul are un sistem propriu de curatare intern si extern pentru acul de proba pentru a minimiza biohazard-ul</p>
Alimentarea	220 V, 50 Hz	<p>220 V, 50 Hz;</p> <p>Avantaj: Nu are pompe- este silentios</p> <ul style="list-style-type: none"> • Nu necesita ventilator, filtru sau sigurante pentru curatare si Maintenanta
Reagenti	Sa fie inclusi toti reagentii necesari pentru efectuarea analizelor si buna functionare pentru ≥ 1000 probe	Da
Accesorii, consumabile	Sa fie incluse toate accesoriile, consumabilele necesare pentru efectuarea analizelor si buna functionare pentru ≥ 1000 probe	Da
Perioada de valabilitate a reagentilor din momentul livrarii	≥ 6 luni	Da



CELL-DYN EMERALD

HEMATOLOGY ANALYZER

Fast, Accurate, with Easy Results Everytime

High performance in an affordable, compact design

- Reliable and accurate patient results
- Barcode reader
- Multiple languages available
- Open-mode one touch operation
- Auto startup and shutdown
- Lightweight - only 19.8 lbs. (9 kg)

Fast and easy to use

- Results in approximately 60 seconds
- Small sample size
- Low reagent consumption
- Zero daily and weekly maintenance

CHOOSE TRANSFORMATION™

Achieve measurably better healthcare performance.

www.corelaboratory.abbott/cell-dyn-emerald

 Abbott

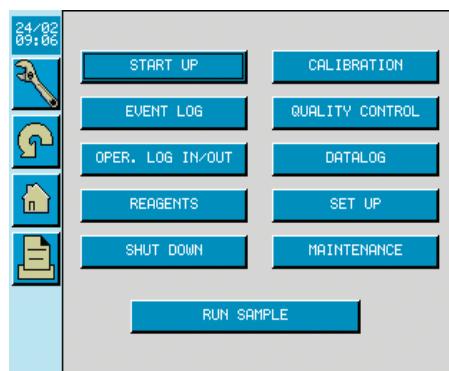
ITEM	SPECIFICATIONS
Technology & Methods	<ul style="list-style-type: none"> • Electronic impedance • Absorption spectrophotometry • Electronic valves • Cyanide-free lyse reagent • LCD color touch screen • RS232 and TCP/IP LIS interface • USB ports
Throughput	• Up to 57 samples per hour
Sample Size	• ~9.8 µL
Specimen Data Management	<ul style="list-style-type: none"> • Search by date or sequence number • Flagging for patient limit sets • Flagging for panic values • 1,500 records with histograms on internal memory • Up to 300,000 records on external USB thumb drive • Programmable patient limits • Programmable report units • Barcode reader (reads code 128, code 39, interleaved 2 of 5, and others listed in the Operator's Manual)
Quality Control	<ul style="list-style-type: none"> • 6 control files • 100 runs per file • Levey-Jennings graphs • Upload/download control information • eQC Online peer review program
Demographics	<ul style="list-style-type: none"> • Sequence number • Alphanumeric specimen ID • Alphanumeric patient ID • Date & time analyzed • Patient name • CBC with 3-part differential • Flagging and Alerts
Dispersional Data Alert	<ul style="list-style-type: none"> • Operator-defined patient limits for high and panic values • System-defined limits for reportable range and analytical measurement range • Suspect parameter flags caused by interfering substances or sample abnormalities • Suspect parameter flags generated when WBC data indicates possible presence of an abnormal population
Standards & Safety Compliance	<ul style="list-style-type: none"> • IEC 61010-1 • EN 61326-1 • CE Mark
Peripheral Devices	<ul style="list-style-type: none"> • Inkjet or laser printer • USB thumb drive • Handheld barcode scanner
Physical Dimensions	<ul style="list-style-type: none"> • Height 13.8 in. (35 cm) • Width 9.8 in. (25 cm) • Depth 13.8 in. (35 cm) • Weight 19.8 lbs. (9 kg) (without on-board reagents)

PARAMETERS		
White Cells	Red Cells	Platelets
WBC	RBC	PLT
LYM #	HGB	MPV
LYM %	HCT	
MID #	MCV	
MID %	MCH	
GRAN	MCHC	
GRAN %	RDW	

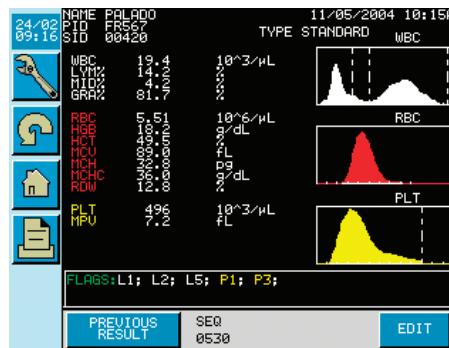
REAGENTS	
Reagent Description	Size and List Number
CN-Free Diff Lyse	960 mL (List No. 09H47-02)
Diluent	10 L (List No. 09H48-02)
Cleaner	960 mL (List No. 09H46-02)

CONTROLS & CALIBRATORS	
CELL-DYN 18 Plus Calibrator	09H70-01
CELL-DYN 18 Plus Control	09H69-01 09H69-02

MAIN MENU



DATALOG FILE



CHOOSE TRANSFORMATION™

Achieve measurably better healthcare performance.

www.corelaboratory.abbott/cell-dyn-emerald

For In Vitro Diagnostic Use Only. Refers to the Operator's Manual for operational precautions, limitations, and hazards.

CELL-DYN Emerald and CHOOSE TRANSFORMATION are trademarks of Abbott Laboratories in various jurisdictions.

© 2017 Abbott Laboratories. ADD-00060076 September 2017





Declaration of Conformity

Certificate Identification:

SC-09H39

Legal Manufacturer's Name:

Abbott Laboratories

Diagnostics Division

Legal Manufacturer's Address:

Abbott Park, IL 60064 USA

List Numbers and Size Code of Devices	GMDN Code	Names and Description of Devices	Classification
09H39-01	35476	CELL-DYN Emerald Instrument	Self-declared

Authorized European Representative (Name and Address)	Abbott GmbH Max-Planck-Ring-2 65205 Wiesbaden, Germany
Storage site of technical documentation (Name and Address)	Abbott Laboratories 4551 Great America Parkway Santa Clara, CA 95054
	BIT Group France, Parc Euromédécine II, Rue de la Valsière, CEDEX 5, CS 14287 34 099 – Montpellier FRANCE
Harmonized Standards	Listed in the Technical Documentation

We, the undersigned, hereby declare that the in vitro diagnostic medical devices described above and bearing the CE marking, conform with the applicable provisions of the EC Directive 98/79/EC of the European Parliament and of the Council of 27 October 1998 on In Vitro Diagnostic Medical Devices and Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, as they are transposed into the laws of the member states.

This declaration is made in accordance with Annex III of the IVD Directive and is issued under the sole responsibility of the manufacturer.

Signature:	<u>Cheryl Nowlan</u>	Signature:	
Full Name:	Cheryl Nowlan	Full Name:	Thao Phan
Position:	Director Quality Assurance	Position:	Associate Director Regulatory Affairs
Date of Approval:	14 JAN 2021	Date of Approval:	14 JAN 2021
Date Issued:	JAN 14 2021	Place Issued:	Abbott Santa Clara
Supersedes:	IRIS V7 (July 1, 2016)	Effective (Date or Lot Number):	JAN 14 2021

CERTIFICATE OF TRAINING

THIS CERTIFIES THAT

Stefan Dumitras

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

CELL-DYN EMERALD 18/22+22AL, Service & Application

November 5th-9th, 2018

Gustavo Rodriguez/Srinivasan Gopalan



TRAINER NAME

ABBOTT DIAGNOSTICS

09.11.2018

DATE DD.MM.YYYY

Germany - Delkenheim

Abbott