Anexa 1 la formularul Specificatii Tehnice Anexa 23

Lotul nr. 1 Analizator biochimic automat sistem inchis

Nr.	Denumire produs	Analizator automat destinat analizelor biochimie cu sistem inchis de reactivi Specificații tehnice oferite				
		Down to the second		Analizator automat destinat analizelor biochimie cu sistem inchis de reactivi	Analizator automat destinat analizelor biochimie cu sistem inchis de reactivi, model Selectra Mach5 (Elitech/Olanda)	
		Parametru		Specificația		
		Tip de lucru		continuu	continuu	
				inchis	inchis	
		Tip sistem		randoom acces	Random acces	
		Capacitatea (teste/oră)		≥ 240 (teste fotometrice, fără modulul ISE)	250 tests fotomerice/hour pentru dual reagent tests 500 tests fotomerice/hour pentru mono-reagent tests	
	Analizator	Posibilitatea efectuarii analizelor urgente		da	da	
	biochimic, automat	Tipul dispozitivului		staționar	staționar	
	sistem inchis	Tip probă		Ser și plasmă	Ser și plasmă	
	Sistem mems			urină	urină	
		Tip proba		sînge integru / hemolizat	sînge integru / hemolizat	
				CSF (lichid cefalo-rahidian)	CSF (lichid cefalo-rahidian)	
		Tip diluare		automat	automat	
		Automat Sistem de spălare Fara conectare la sursa externa de apa		da	da	
		'	Volumde apa consumat per ora	≤1.6L	da	
			Management intern al controlului calitatii	da	da	
		control al calității	Posibilitatea programarii valorilor controalelor si calibraorilor la distanta	da	da	
		Compartiment reactivi	Cantitate maxima reactivi concomitent	≥52	Da, de la 30 la 80	

	Cantitate de reactivi concomitent	≥30	De la 30 la 80
	Capacitatea buteliilor cu reactivi	20ml si 50ml	10 mL, 30 mL si 90 mL reagent
	Detectia nivelului de lichid	da	da
	Consum de reagent poate fi programat	10μ1 - 440μ1	Da, cu pas de 1 μL
	Cantitate probe la bord	≥72	90
	Eprubete primare	da	da
Compartime	Eprubete pediatrice	da	da
probe	Eprubete primare si pediatrice pot fi utilizate concomitent	da	da
	Volum proba	3-40 μL	1 - 30 μL (increment de 0.1 μL)
	cu termostat la 37 grade C	da	Cu termostat la 37 grade C
Rotor cu încălzire	Cantitatea celulelor pentru reactie	≥120	128
pentru probe	De o singura folosinta	da	>10,000 tests per rotor
	Volum de reactie	200 μL – 800 μL	110 to 400 μL
	cinetic	da	da
	mono și bi-cromatic	da	da
	imunoturbidimetrc (Turbidity)	da	da
Regimuri de măsurare	Filtre optice utilizate	≥8	12
	Diapazonul filtrelor	340nm – 900nm	Da, 340, 405, 415, 490, 505, 546, 570, 600, 625, 660, 700, 800nm
	Functie de detectie a proznei	da	da

		Calculator extern	da	Calculator integrat, Windows 10 Enterprise LTSC; Touchscreen monitor 15.6 inch, 1366 x 768 pixels
	Sistem operational	Interfata LIS	da	da
		Posibitatea conectarii la distanta	da	da
		Program intuitiv si usor de utilizat	da	da
	Sistem de dozare Lampa halogen	Sensor de obstacol	da	da
		Volum de dozare	$3 \mu L - 1250 \mu L$	
		rezolutia	≤0.126 μL	0 to 3.0 Abs
		Viteza de dozare	≥880 µL/s	Da
		ı	12 V, 20W	Da, Quartz-iodine lamp 12V-20W
	Monitorizare a	utomata a duratei de lucru	da	da
	Alimantare		220V, 50Hz	100 - 240 Vac ±10%; 50/60Hz
	Greutate		≤73 kg	110kg
	CE		Certificate/declaratie	Declaratie de Conformitate
	ISO 13485		DA	DA
	ISO 9001		DA	DA
	Inginer autoriza	at de producator	Da	Da



CERTIFICATE

Sergiu Sorocovici

has successfully completed the

Selectra Mach5. Make Work Flow

14/01/2022 Issued date

Maurice Verdaasdonk Vice President Clinical Systems







CERTIFICATE

Sergiu Sorocovici

has successfully completed the

Selectra Mach5: Basic Application Specialist Training

14/01/2022 Issued date

Maurice Verdaasdonk Vice President Clinical Systems





CERTIFICATE

Sergiu Sorocovici

has successfully completed the

Selectra Mach5: Basic Troubleshoot Training

03/04/2022 Issued date

Maurice Verdaasdonk Vice President Clinical Systems





REGISTRUL DE STAT AL DISPOZITIVELOR MEDICALE





EU Declaration of Conformity



ELITechGroup B.V. Van Rensselaerweg 4 6956 AV Spankeren The Netherlands

declares under sole responsibility that the product indicated below (including all accessories) and to which this declaration relates, conforms to the provisions of:

- Regulation 2017/746 of the European Parliament and of the Council of 5 April 2017 on In vitro diagnostics medical devices ("IVD Regulation")
- Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the
 restriction of the use of certain hazardous substances in electrical and electronic equipment
 ("RoHS2 Directive"), including Commission Delegated Directive (EU) 2015/863 of 31 March 2015
 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as
 regards the list of restricted substances ("RoHS3").

It is certified that this product is registered in accordance with the requirements of above-mentioned EU Regulations/Directives and carries the CE-marking.

Catalogue number	Description	GTIN
6004-301	Selectra Mach5	0 3661540 60054 8

Product	Multiple clinical chemistry analyzer IVD, laboratory, automated	
SRN	TBD	
Risk Class	A	
GMDN code	56676	
Accessories	See Annex	

Product classification

As per Article 48, section 10 the products are categorized as class A device ("self-declaration").

Conformity assessment procedure

In accordance with:

- Article 18 of the IVD Regulation
- Article 4 of the RoHS2 Directive

Spankeren, January 2021

M.A.S.V.E. Verdaasdonk Managing Director



EU Declaration of Conformity



List of applied (harmonized) standards

	Standard version	Description	Tested / certified by
	IEC 61010-1:2010, AMD1:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	JL
	IEC 61010-2-010:2014	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of material	
Safety	IEC 61010-2-051:2015	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring.	
	IEC 61010-2-101:2015	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	
	UL 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1. General requirements	UL
	IEC 61326-1:2012	Electrical equipment for measurement, control and laboratory use - EMC requirements – Part 1: General requirements	
EMC	IEC 61326-2-6:2012	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-6: Particular requirements – In Vitro diagnostic (IVD) medical equipment	DEKRA
Quality systems	ISO 13485:2016	Medical devices—Quality management systems— Requirements for regulatory purposes.	



EU Declaration of Conformity



Annex - List of IVD accessories

Catalogue number	Description	GTIN
3201-019	Precision Test Solution	0 3661540 60042 5
6004-338	Drying Block Set	0 3661540 60470 6
6004-351	Cuvette rotor set (3 pieces)	0 3661540 60043 2

22 June 2021 21 June 2024

10361225



Certificate of Approval

This is to certify that the Management System of:

ELITechGroup B.V.

Van Rensselaerweg 4, 6956 AV Spankeren, The Netherlands

has been approved by Lloyd's Register to the following standards:

ISO 13485:2016

Approval number(s): ISO 13485 - 00020722

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Design, development and manufacturing of clinical chemistry analyzers, contract manufacturing of erythrocyte sedimentation rate analyzers and warehousing of erythrocyte sedimentation rate tubes for the in vitro diagnostic investigation of samples of human origin.



Paul Graaf

Chief Operating Officer, Management Systems, MSIS

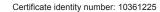
Issued by: Lloyd's Register Nederland B.V.

for and on behalf of: Lloyd's Register Quality Assurance Limited



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Certificate Schedule

Location Activities

ELITechGroup B.V.

Van Rensselaerweg 4, 6956 AV Spankeren, The Netherlands

ISO 13485:2016

Design, development and manufacturing of clinical chemistry analyzers, contract manufacturing of erythrocyte sedimentation rate analyzers and warehousing of erythrocyte sedimentation rate tubes for the in vitro diagnostic investigation of samples of human origin.

ELITechGroup B.V.

Kanaaldijk 90, 6956 AX Spankeren, The Netherlands

ISO 13485:2016

Design, development and manufacturing of clinical chemistry analyzers, contract manufacturing of erythrocyte sedimentation rate analyzers and warehousing of erythrocyte sedimentation rate tubes for the in vitro diagnostic investigation of samples of human origin.



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Selectra Mach®5

An innovative benchtop solution to match your laboratory's needs now and into the future

- Quality and sturdiness synonymous with the Selectra brand
- Maximum efficiency through consolidation of routine and special testing
- $\bullet \text{The accuracy required to help clinicians provide the best patient outcomes}$
- Economical benchtop solution

Now, how can Selectra Mach®5 add additional value for your clinical chemistry laboratory?

selectra
-MACH-5

Choose your next benchtop system wisely

When choosing the right solution for your clinical chemistry laboratory, features that directly impact your laboratory's productivity will be critically important.

You will look for the best option to complete your workload with the existing or even less resources.

Simply making side by side comparisons of published technical specifications does not provide the critical information for your unique situation.

An integrated approach, that combines the critical productivity elements in a benchtop system, provides the additional insight required to make your work flow.

ELITechGroup

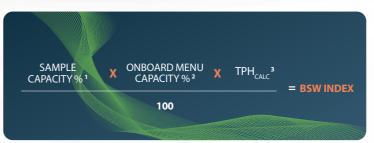


An integrated approach to benchtop system efficiency: The Benchtop System Workflow Index™

Efficient workflow depends on much more than a system's published specifications



The higher the BSW Index™, the more efficient the workflow in your laboratory



- 1 Sample Tray Capacity divided by the capacity needed to perform your daily workload.
- 2 Onboard Menu Capacity divided by the capacity needed to load your complete routine test menu.
- 3 Calculated theoretical Tests Per Hour performing your typical daily workload.

How the BSW Index works

The BSW Index assesses the overall workflow in a lab by incorporating three productivity elements of the benchtop system.

In short, it is a measure of benchtop speed ("calculated Tests Per Hour") combined with measurements of benchtop-staff interactions during instrument operating time.

The higher the BSW Index, the more efficient the workflow in your laboratory

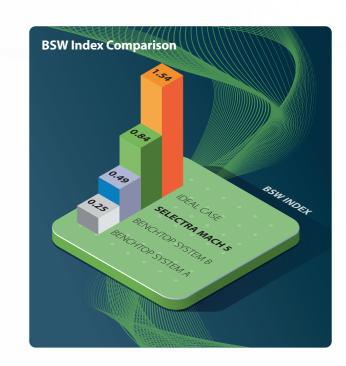
Let's look at the following scenario:

A routine clinical chemistry laboratory needs a new benchtop clinical chemistry system. Demand is expected to grow to 300 samples/day, requiring a menu of 40 parameters³, with an average of 12 tests/sample. The laboratory is operational 12 hours/day.

A "top 3" of benchtop systems is selected, based on published specifications meeting the current and future productivity needs: Selectra Mach5, Benchtop system A and Benchtop system B.

To determine which system will be most efficient, the BSW Index for all 3 systems is calculated.

Conclusion: for this laboratory, the Selectra Mach5 would be the best fit.

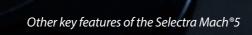


The values for the Ideal Case and the 3 selected instruments are displayed in the table below:

Top 3 selected Benchtop Systems:	SELECTRA MACH5	SYSTEM A	SYSTEM B	IDEAL CASE ¹
SAMPLE CAPACITY	83	40	50	110 (C²)
ON BOARD REAGENT CAPACITY ³	68	50	100	100 (B)
CALCULATED TPH (based on cycle time values)	314	270	216	300
BSW INDEX	0.84	0.25	0.49	1.54

- 1. The Ideal Case is calculated by selecting the maximum score for each efficiency element, from all the instruments used in the comparison, and the desired throughput (in this case 300 Tests Per Hour).
- $2. Instrument \ C \ has the most optimal sample capacity but, because of insufficient throughput, did not make the short list. \\$
- Reagent positions required for the selected menu for non-ELITech Systems are based on publicly available information. For the Selectra Mach5, 70 reagent positions are required for the selected test menu.







System completeness: Unlike many other systems, Selectra Mach®5 has everything included in the system, minimizing footprint. A built-in computer system including touchscreen monitor enabling better cyber security. An integrated supply of system liquid, simplifying system handling for the operator, or, in other words, optimizing human-system interventions.



Water usage: Selectra Mach5 has an onboard water capacity of 10L and typically uses up to 2.5L/h. The system is designed to perform efficiently, therefore both the water and waste containers can be replaced without interrupting the analytical process.



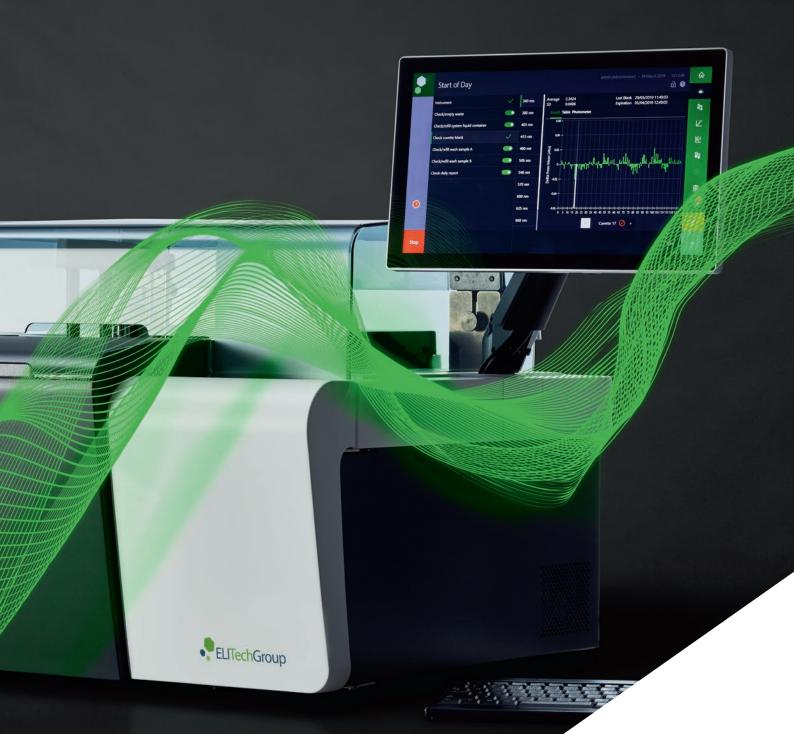
Photometric module: The unique photometers of Selectra Mach5 are LED-based and have a significantly longer life span than the halogen lamp in lamp-based photometers used in many other clinical chemistry systems. Moreover, the LED photometric cartridge technology provides more flexibility and adaptability for future assay developments, as up to 16 individual LED photometer cartridges with a specific wavelength can be accommodated (12 included as standard).

INSTRUMENTS			
SYSTEM	Fully automated, random access, benchtop clinical chemistry system with STAT capability		
COUNTRY OF ORIGIN	Netherlands		
DIMENSIONS	105 cm (w) x 70 cm (d) x 65 cm (h)		
WEIGHT	110 Kg		
OPERATING ENVIRONMENT	Between 15-32 °C; 30-85 % relative humidity (non condensing); and up to 3,000 m above sea level		
INTEGRATED PLATFORM	Instrument with inbuilt PC, software, reagents, calibrators, controls and consumables		
ANALYSIS MODES	Quantitative, Semi-Quantitative and Qualitative		
ASSAY TYPES	Quantitative Kinetic Rate, Fixed Point Rate, End Point; Semi-quantitative; and Qualitative (cut-off)		
ASSAY TECHNOLOGIES	Colorimetric (UV-Visible spectra), Turbidimetric		
TEST MENU			
PROGRAMMABLE TESTS	1,000		
ON BOARD REAGENT CAPACITY	Up to 65 Bar Code Readable (BCR) positions, cooled at 8 ± 4 °C		
ON BOARD TEST CAPACITY	At least 39 Parameters when using ELITechGroup system reagents		
SYSTEM REAGENT MENU	At least 40 CE marked system reagents		
USE OF THIRD PARTY REAGENTS	Yes, capability of running third party assays not available from ELITechGroup		
WORK FLOW			
PRIMARY TUBE SAMPLING	Primary- tube diameter ranging from 12 to 16 mm and a height ranging from 75 to 100 mm		
CONTINUOUS REAGENT AND SAMPLE	Yes, samples and reagents, via dedicated sample and reagent access covers		
LOADING	(maximum pause time for sample of 2 minutes)		
ON BOARD SAMPLE CAPACITY	85 sample positions. 65 BCR and 20 auxiliary positions (inner ring)		
THROUGHPUT RANGE (PHOTOMETRICS)	250 to 500 photometric TPH		
THROUGHPUT /M ²	340 to 680 photometric TPH/m ²		
TIME TO FIRST RESULT (PHOTOMETRICS)	< 5 minutes when using ELITech system reagents (assay dependent)		
STAT LOADING	Utilising pause function, so no interruption to tests already in progress		
AUTOMATIC REPEAT TESTING	Yes, automatic onboard dilution of out of range results		
WALK AWAY TIME	Up to 4 hours using ELITechGroup system reagents		
VALIDATED SAMPLE TYPES	Serum, Plasma, Whole Blood and Urine (assay dependent)		
SAMPLE INTEGRITY	Sample clot detection		
SAMPLE AND REAGENT IDENTIFICATION	Inbuilt BCR for risk free loading of samples and reagents		
SYSTEM CONTROL			
OPERATING SYSTEM	Windows 10 based operating system		
USER COMMANDS	15.6 inch capacitance Touch and Swipe screen, resolution 1366 x 768 pixels and widescreen (16:9) aspect ratio		
APPLICATIONS	Automatically downloaded from 2D barcode on IFU with handheld BCR		
CONTROL AND CALIBRATOR DATA	Automatically downloaded from 2D barcode on IFU with handheld BCR		
STATUS DISPLAY	Instrument status, time for completion are displayed in real time		
START UP PROCEDURE	System can be programmed for automated start up outside routine hours to prevent interruptions to workflow		
SHUT DOWN PROCEDURE	System can be programmed for automated shut down outside routine hours to prevent interruptions to workflo		
STORAGE CAPACITY	256 GB solid state hard disk		
OPERATOR SAFETY			
ACCESS WHEN OPERATING	Cover open /closed detection. Transparent instrument cover, so moveable parts are visible during operation		
MAIN COVER	Open/Closed detection Open/Closed detection		
SAMPLE COVER	Open/Closed detection		
REAGENT COVER	Open/Closed detection		
CUVETTE ROTOR COVER	Open/Closed detection		
NOISE EMISSION	Balanced noise criterium at NCB-58; Sound pressure 58 dB(A)max. when in use		
REGULATORY COMPLIANCE			
IVD MEDICAL DEVICES	CF-marked in accordance with FLLIVD Regulation 2017/746		
ROHS	CE-marked in accordance with EU IVD Regulation 2017/746 CE-marked in accordance with EU Directive 2011/65/EU		
NO113			
SAFETY	Tested and certified according to: IEC 61010-1:2010 (incl. AMD1:2016), IEC 61010-2-010:2014, IEC 61010-2-051:2015, IEC 61010-2-101:2015		

Tested and certified by DEKRA according to: IEC 61326-1:2012, IEC 61326-2-6:2012







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www.selectramach5.com info@elitechgroup.com