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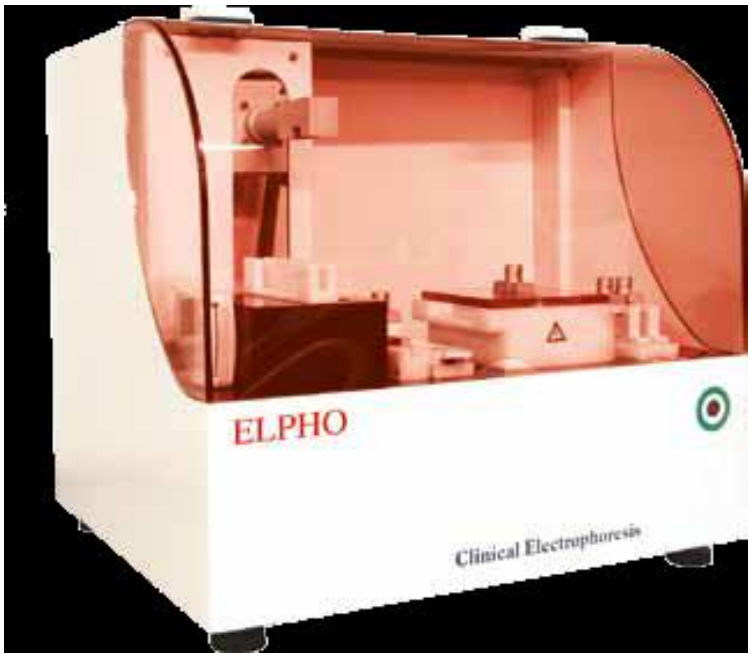
Electrophoresis Automated System

PKL PPC Elpho
Acetate Cellulosa

Features



- ELPHO performs the automatic electrophoresis of Serum Proteins, Hemoglobin, Lipoproteins, Isoenzymes, not concentrated Urine protein etc., and other methods that require incubation step, which will be performed in a semi-automatic way. Additional specific instructions for the methodologies will be describe in the provided kits.
- The equipment of the machine consists of:
- A robotic unit that performs in a fully automated way all the phases of the process: the buffering of strips from 1 to 2, which can be made of cellulose acetate or other kind of supports, the drying of the strip, the samples deposit, migration, staining, destaining, reading with incorporated densitometer;
- A built-in Computer runs the robotic controllers
- A software for the machine functioning and management of the program.

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ISO9001:2015 ISO13485:2016

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Vat.: IT03117920656
Ph + 39 089 385027 amministrazione@paramedical.it www.paramedical.it

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Reagents

- The kit will contain the reagents required for ELPHO processes of electrophoresis with all the concerned methods. All machines are supplied with sensor cable, which connect the machine with the external tanks. Pay attention when filling the tanks with the appropriate reagents, as indicated on the caps and on the tanks, and pay attention when cleaning them.

Specifications

Analysis	Electrophoresis of Serum Protein, Hemoglobin, (Urine Protein, Lipoprotein) on Cellulose Acetate Strips. Human and Veterinary
Electrophoretic Media	Dry cellulose acetate plates (available in 2 sizes)
Analytical Capacity of standard plate	Up to 16 samples per cycle on 2 plates
Analytical Capacity of mini plate	Up to 8 samples per cycle on 2 plates
Analytical Throughput - standard plate	8 micro samples in about 30 minutes 16 micro samples in about 50 minutes
Analytical Throughput - mini plate	4 micro samples in about 30 minutes 8 micro samples in about 50 minutes
Sample Plate	Removable, with 16 wells
Robotic Arm	Electronic check integrated for presence of objects
Applicator Washing	Automatic by circulation of deionized water
Migration Chamber	Automatic loading of buffer solution
Staining and Destaining Trays	Automatic loading of solutions

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Liquid Control	By infrared sensor and by time control
Interface	USB, LAN
Power Supply	220 – 240 V ac 50 – 60 Hz
Dimensions	50x45x45 cm
Weight	25 Kg
User Interface	Keyboard and mouse (not included) by USB or PS/2
Monitor (not included)	VGA connection
Computer	Integrated into the instrument
Reading System	8 indipendent channel
Bright Source	8 Led ultrabright
Densitometer Linearity	0 to 2.8 D.O.
Software	Dedicated for instrument and densitometer management
Language	Italian , English , French

The program is very flexible, both during the performing of the electrophoretic process, and after reading the samples.

During the execution electrophoresis, in order to speed up the operations, it is possible to modify the traces of an earlier scanning and to keep the data archive.

The scan results are automatically presented on the video, and it is possible to correct them and include any comments. Within the program there is an interactive curves editor, which can also modify the trace.

The editor shows the image of migration, the resulting curve and the numerical results with the identification of normality and with the personal data of the patient. It is possible to change the position of the minimum, the names of the fractions and to add comments by simply clicking the mouse on the corresponding button that is present on the window. Using the 'Previous' and 'Next' key, you can scroll through the results of the various patients.

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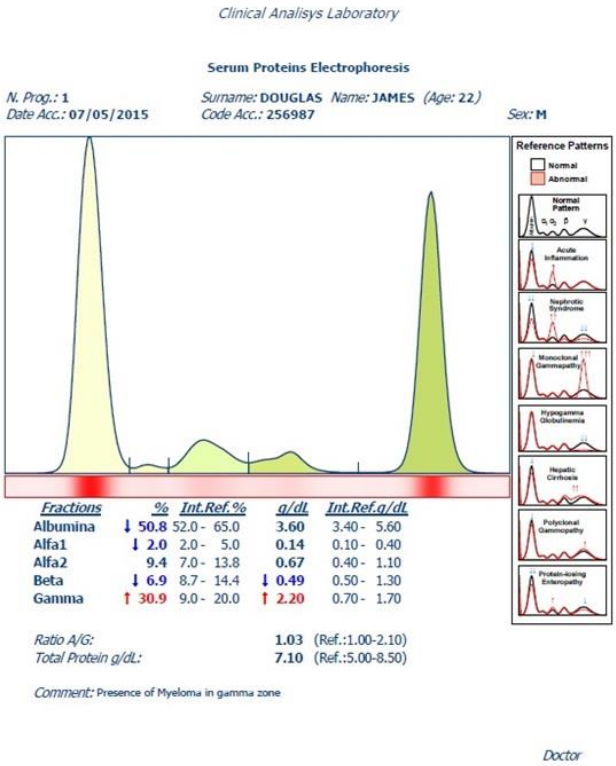
An interesting feature of ELPHO is the printing: it produces a report that, apart from the graph of the curve and the numerical results, also contains the image of migration, the personal data and comments. The resulting printing can then be delivered directly to the patient, with no need to attach other documents such as reports or images of migration.



Clinical Analisys Laboratory

Serum Proteins Electrophoresis

N. Prog.: 1 *Surname:* DOUGLAS *Name:* JAMES *(Age:* 22*)*
Date Acc.: 07/05/2015 *Code Acc.:* 256987 *Sex:* M

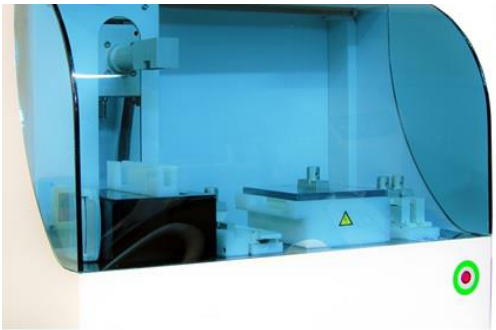
Reference Patterns
Normal
Abnormal
Normal Pattern
Acute Inflammation
Nephrotic Syndrome
Monoclonal Gammopathy
Hypogamma Globulinemia
Hepatic Cirrhosis
Polyclonal Gammopathy
Protein-losing Enteropathy

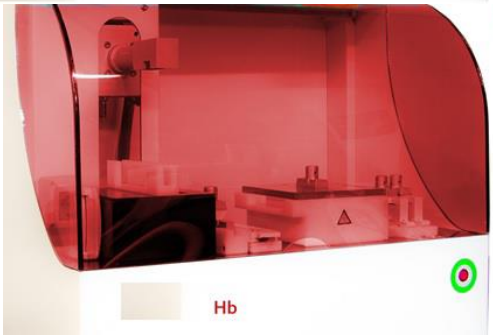
Fractions	*%*	*Int.Ref.%*	*g/dL*	*Int.Ref.g/dL*
Albumina	↓ 50.8	52.0 - 65.0	3.60	3.40 - 5.60
Alfa1	↓ 2.0	2.0 - 5.0	0.14	0.10 - 0.40
Alfa2	9.4	7.0 - 13.8	0.67	0.40 - 1.10
Beta	↓ 6.9	8.7 - 14.4	↓ 0.49	0.50 - 1.30
Gamma	↑ 30.9	9.0 - 20.0	↑ 2.20	0.70 - 1.70

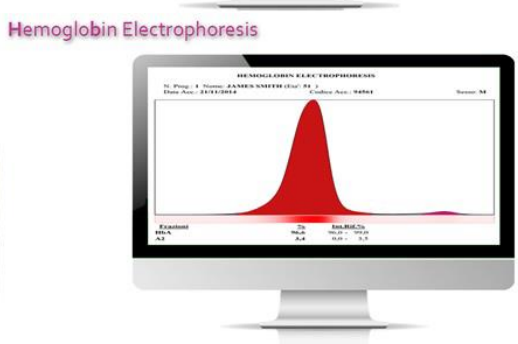
Ratio A/G: 1.03 (Ref.:1.00-2.10)
Total Protein g/dL: 7.10 (Ref.:5.00-8.50)

Comment: Presence of Myeloma in gamma zone

Doctor







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