ELECTROPHORETIC KIT (EXPRIME 72)

Qualitative and quantitative determination of serum proteins (5 fractions) on EXPRIME 72 instrument

TEST SUMMARY
The proteins in the samples are separated in the appropriately buffered by electrophoretic migration. The result is achieved by depositing a serum sample on a appropriate support of cellulose acetate with hard plastic material and application of electric current to a preset time. The protein fractions are positioned, individually, in different areas of the strip according to their specific electrical charge. Once correctly completed electrophoretic “migration”, the strip should be treated with a reagent capable of highlighting the protein fractions, and in this case you use dye Red Ponceau S. At the end of the staining process is necessary to remove excess dye to make visible only the bands of protein fractions, this is achieved by treating the strip with an appropriate destaining. The strip is read by an optical scanner system. The values are expressed as a percentage of the different fractions, with the chart of the separation.

SAMPLES
Serum not hemolized collected according to NCCLS H11-A3 document. Stability 2 weeks at 2-8°C or 4 days at 15-25°C.

REAGENTS
Stability 2 weeks at 2-8°C or 4 days at 15-25°C.

Loading Samples
Put the frame in the strips rack framed of the base sample holder, ensuring a homogeneous distribution and without bubbles.

Operations / Parameters
Constant current 10 mA
Optics Compensation 50
IMBIATION 120 second
DRYING 1 90 second
MIGRATION 720 second
STAINING 150 second
DESTAINING 1 40 second
DESTAINING 2 300 second
DRYING 2 15 second
DEPOSITION TIME 20 second

EXPECTED VALUES

<table>
<thead>
<tr>
<th>Albumin</th>
<th>0.1 – 0.4 g/dl</th>
<th>0.7 – 1.0 g/dl</th>
</tr>
</thead>
<tbody>
<tr>
<td>α</td>
<td>0.8 – 1.0 g/dl</td>
<td>0.8 – 1.0 g/dl</td>
</tr>
<tr>
<td>β</td>
<td>0.8 – 1.0 g/dl</td>
<td>0.8 – 1.0 g/dl</td>
</tr>
<tr>
<td>γ</td>
<td>1.0 – 1.4 g/dl</td>
<td>1.0 – 1.4 g/dl</td>
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</tbody>
</table>

Every laboratory should establish own reference intervals in accordance with own population.

NOTES
• Use only throwaway materials for to avoid contaminations.
• If the results are incompatible with clinical presentation they have to be evaluated within a total clinical study.
• Only for IVD use.

CALIBRATION / QUALITY CONTROL
It is suggested to perform an internal quality control with Control Serum of protein sera.

TEST PERFORMANCE
All the performance of this reagent were established on the instrument EXPRIME 72 using reagents.

Methods comparison
46 samples of normal and pathological sera were analyzed by electrophoretic LTA KIT EXPIME on 72 and the results were compared with those obtained with a similar system commercially available.

Interferences
In Hemolyzed serum, free hemoglobin bound by Haptoglobin interferes with the assay of Fraction Alpha 2. Are described in the literature various drugs and other substances that may interfere with the determination.

WARNING: It is recommended to verify the correct and complete tightening of carrier strips
Put the frame in the strips rack framed of the instrument, starting from position 1. Place the filter paper into the slots. For instruments equipped with automatic loading and unloading of reagents fill the pan with the respective reagents diluted.

For details, see the user manual of the instrument.

WASTE DISPOSAL
Product is intended for professional laboratories. Waste products must be handled as per relevant security cards and local regulations.

PACKAGING
CODE EF10100 (400 TESTS)
Buffer 1 x 100 ml (liquid)
Destaining 2 x 250 ml (liquid)
Staining 2 x 100 ml (liquid)
Electrophoretic stripes 2 x 25 pc.
Imbition set 4 pc.
Paper set 10 pc.

CODE EF10110 (200 TESTS)
Buffer 1 x 50 ml (liquid)
Destaining 1 x 250 ml (liquid)
Staining 1 x 100 ml (liquid)
Electrophoretic stripes 1 x 25 pc.
Paper set 2 pc.

REFERENCES
F. Pasquenelli; Diagnostica e Tecniche di laboratorio, Chimica clinica p.672.

MANUFACTURER
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SYMBOLS
IVD Only for IVD use
LOT Lot of manufacturing
CODE Code number
STORAGE Temperature storage interval
EXP Date Expiration date
R Warning, read enclosed documents
B Biological risk

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