

Myoglobin-LT

(Immunturbidimetric Latex-Test)

Reagent for the quantitative immunturbidimetric Determination of Myoglobin in Serum and Plasma

| Cat.No | Package Size |
|--------------|----------------------------|
| 838003 (Hit) | 1 x 20 mL R1 / 1 x 8 mL R2 |

Testprinciple

Immunturbidimetric latex enhanced test for the determination of myoglobin (MYO) by an endpoint reaction, through photometric measurement of the antibody-antigen reaction between myoglobin in the sample and antibodies to human myoglobin which are bound to latex particles.

Reagents

Components (concentrations in the test)

| | | | |
|------------|---|--------|------------|
| R1: | Glycine-Buffer | pH 9.0 | 165 mmol/l |
| | NaCl | | 95 mmol/l |
| | EDTA-Na ₂ | | 45 mmol/l |
| R2: | Latex particles coated with anti-myoglobin-antibodies | | 0,12 g/l |
| | Glycine-Buffer | pH 7.3 | 165 mmol/l |
| | NaCl | | 95 mmol/l |

Storage / Stability

At 2-8 °C reagents are stable up to the given expiration date printed on the labels, if there is no contamination after opening the bottles.

Do not freeze the reagents !

Waste

Handle according to the local legal regulations

Preparation

Reagents are ready for use.

Mix the latex reagent R2 carefully before use.

Sample material

Serum, Heparin plasma or EDTA plasma.

Stability -Store at 2 - 8 °C and use immediately

- at least 6 months at - 20 °C

Discard contaminated samples!

Precautions

1. The reagents contain sodium azide (0,95 g/l) as preservative. Do not swallow! Avoid contact with skin and/or mucous membranes!
2. Do consider the corresponding laboratory regulatories and the local legal rules for the use of laboratory reagents

Assay Procedure

| | |
|-------------|----------------------------|
| Wavelength | Hg 578 nm (580 nm) |
| Cuvette | 1 cm lightpath |
| Temperature | 37 °C |
| Measure | against Reagent Blank (RB) |

| | Reagent-Blank (RB) | Sample or calibrator |
|---|--------------------|----------------------|
| Sample / Calibrator | - | 30 µl |
| NaCl 0.9% | 30 µl | - |
| Reagent R1 | 900 µl | 900 µl |
| Mix, incubate for 5 min, read absorbance A ₁ and add | | |
| Reagent R2 | 300 µl | 300 µl |
| Mix and read absorbance A ₁ exactly after 30 sec. | | |
| Incubate for 5 min and read absorbance A ₂ | | |

$$\Delta A = [(A_2 - A_1) \text{ Sample or Calibrator}] - [(A_2 - A_1) \text{ RB}]$$

Calculation

Multi-Point-Calibration

The concentration in unknown samples is calculated through a calibration curve using a suitable mathematical procedure e.g. logit/log. The calibration curve is established by 4 calibrators of different concentrations and NaCl-solution (9 g/l) for zero.

Stability of calibration is 4 weeks.

Calibration/Controls

For the calibration of automated photometric systems we recommend Greiner-myoglobin-calibrator set. The values are traceable to the reference material.

For internal QC use controls with suitable control values.