SPECTRUM

The Creative Approach to Bioscience

HAPTOGLOBIN (HAP)
Immuno Turbidimetry

REF: 594 001 50 test
R1 Buffer Reagent 1 x 20 ml
R2 Antiserum 1 x 3.2 ml

Intended Use

Spectrum Diagnostics Haptoglobin reagent is intended for Quantitative turbidimetric determination of Haptoglobin in human serum .

Background

Acute phase protein.Transport molecule for haemoglobin.
Increased levels of HAP are reported in acute inflamation, collagenoses, coronary disorders, Hodgkin's disease, nephrotic syndrom and tuberculosis. Decreased levels of HAP are found in haemolytic anemia, liver disease, congenital deficiencies and acute malaria.

Assay Principle

This HAP test is based upon the haptoglobin antigen-antibody reaction.

Reagent

R1 Buffer Reagent
Phosphate buffered saline(pH 7.43).
Polyethelene glycol (60 g/L).
Sodium azide (0.95 g/L).

R2 Antiserum
Phosphate beffered saline(pH 7.43).
Polyclonal goat anti-human Haptoglobin (variable).
Sodium azide (0.95 g/L).

Materials required but not provided with the kit

1- Standard
Haptoglobin concentration is stated on the vial label.

2-Controls

Reagent Preparation, Storage and Stability

Spectrum Haptoglobin reagents are stable up to the expiry date labeled on the bottles when stored at 2 - 8^{O}C and contaminations are prevented during their use.Once opened the standard is stable for 6 weeks if stored tightly closed at 2 - 8 ºC after use.
For further storage at - 30 ºC divide standard into aliquots. Stability 3 months. once thawed never freeze again.

Specimen Collection and Preparation

Fresh serum. Stable 2 days at 2 - 8^{O}C or 3 months at -20^{O}C.
Samples with presence of fibrin should be centrifuged.
Do not use highly hemolized or lipemic samples.
Note: Sample should be diluted 1 : 10 in saline before use.

Procedure

Wavelength 340 nm
Temperature room tepmperature
Cuvette 1cm light path
Zero adjustment distilled water
Bring the reagents at room tepmperature
Samples, standard and controls should be diluted 1 : 10 in saline before use.

	Standard	Sample
Reagent (R1)	400 µl	400 µl
Dil.Standard	5 µl	-----
Dil. Sample	-----	5 µl
Mix, and record 1st reading (A1).		
Reagent (R2)	60 µl	60 µl

SYMBOLS IN PRODUCT LABELLING

EC REP	Authorised Representative		Temperature Limitation
IVD	For in-vitro diagnostic use		Use by/Expiration Date
LOT	Batch Code/Lot number		CAUTION. Consult instructions for use
REF	Catalogue Number		
	Consult instructions for use		Manufactured by

After addition of **R2,** incubate at room tepmperature and after 5 minutes record 2nd reading (A2)

Calculation

Generate a reference curve by successive 1 : 2 dilutions of diluted Standard in saline **(4 Points)**. Use Saline as zero point. Determine Δ absorbance of the sample and each standard as following:
Δ absorbance of sample = (A2 - A1) sample
Δ absorbance of each standard = (A2 - A1) for each Standard
Plot the calibration curve and obtain the result.

Expected Values

Normal values are between 32 - 205 mg/dL.
Each laboratory should establish its own reference range.

Sensitivity

When run as recommended, the minimum detection limit of the assay is 1 mg/dL.

Linearity

Up to 500 mg/dL.
specimens showing higher concentration should be diluted 1/5 using physiological saline and repeat the assay.

Interfering Substances:

Haemoglobin	up to 1000 mg/dL.
Bilirubin	up to 20 mg/dL.
Triglycerides	up to 2500 mg/dL.

Dynamic Range

1 - 500 mg/dL.

Waste Disposal

This product is made to be used in professional laboratories.
Please consult local regulations for a correct waste disposal.
S56: dispose of this material and its container at hazardous or special waste collection point.
S57: use appropriate container to avoid environmental contamination.
S61: avoid release in environment. refer to special instructions/safety data sheets.

References

Dati, F. et al., Lab. Med. 13, 87 (1989)

ORDERING INFORMATION	
CATALOG NO.	**QUANTITY**
594 001	100 test

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CE

ISO 13485

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