

# MICRO PROTEIN

**PRECILAB**

**INTENDED USE:** Quantitative in vitro determination of Microprotein in Urine and CSF on photometer.

**METHOD:**

Photometric, End Point, Pyrogallol Red

**PRINCIPLE:**

Protein react with pyrogallol red in acidic medium form blue purple complex.

**REAGENTS:**

**COMPONENTS**

Pyrogallol Red

Sodium molybdate

Preservative and stabilizer

Standard: 50 mg/dl

**STORAGE INSTRUCTIONS AND REAGENTS STABILITY:**

The reagent are stable up to the end of the indicated date of expiry on the vial label, if stored at 2 to 8°C, protected from light and contamination is avoided. Do not freeze the reagent.

**SPECIMEN:**

Urine 24 hour collection, cerebral spinal fluid (CSF)

Stability of Urine: Urine should be stored at 2 to 8°C.

CSF may be analysed fresh or stored at 2 - 8°C for 3 days.

Discard contaminated specimens.

**ASSAY PROCEDURE 1:**

**Working Reagent:**

Wavelength : Hg 630, 600 nm

Optical path : 1 cm

Temperature : 37°C.

Mode : Endpoint

Bring all contents of the kit to room Temperature prior to use.

	Blank	Standard	Sample
Reagent	1000ul	1000ul	1000ul
Distilled Water	10ul	-	-
Standard	-	10ul	-
Sample	-	-	10ul

Mix and incubate for 5 min. at 37°C measure the absorbance against blank.

**CALCULATION:**

Concentration (C) of Micro protein in the sample:

$$C = \frac{\text{Absorbance of sample}}{\text{Absorbance of standard}} \times 50 \text{ mg / dl}$$

**Reference Range:**

Urine (Random): 1 to 14 mg/dl

Urine (24 Hours) : 28 - 140 mg/24 Hrs.

CSF : 10 - 40 mg/dl

**General parameter for testing:**

Mode	Endpoint
Wavelength	630 nm
Light path	10 mm
Working Reagent volume	1.0 ml
Sample volume	10 µl
Std. Conc.	50 mg/dl
Incubation	5 min.
Units	mg/dl
Temperature	37°C
Blanking	Reagent
Reference range	28 - 140 mg /24 Hrs.
Linearity	200mg/dl

**Mfd. in India by:**

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