

"Serum Protein", "Specific Gravity of Urine", "Refractive Index"

CLINICAL REFRACTOMETER

SUR-NE

Cat.No.2734

Measurement can be made with a few drops of the sample!

Light and Compact! It is very convenience to carry anywhere!



Specifications

Urine S.G.scale : 1.000~1.060
 Minimum scale : 0.001
 Serum protein scale : 0.0~12.0g/100ml
 Minimum scale : 0.2g/100ml
 Refractive index scale : nD1.3330~1.3660
 Minimum scale : nD 0.0005
 Size and weight : 4 x 4 x 18cm, 170g

Measuring method



Refractive index of a solution varies according to the its concentration. Hence, its concentration is obtained from its refractive index. The refractive index of blood serum or plasma depends mainly upon its protein concentration, as proteins are one of the major constituents.

This instrument has been designed to use the refractive index method for measuring total protein in serum. The protein scale has been prepared after extensive clinical analyses under taken by Dr. Matsumura, Professor of Bio chemistry at the Tokyo Women's Medical University. His scale is based on the results obtained from over 1400 cases. The scale is the most reliable one at present available. As the same as serum protein, there is a correlation between refractive index by a refractometer and urine specific gravity by a hydrometer. Urine specific gravity can be taken from refractive index. Measurement range of this unite is 1.000 to 1.060.

*Specifications and appearance are subject to change without notice.

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