CLINICAL REFRACTOMETERS

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 undertaken by Dr. Matsumura, Professor of Biochemistry at the Tokyo Woman's Medical University. The scale developed by Dr. Matsumura is based on the results obtained from over 1400 cases and has been incorporated into ATAGO refractometers. This is the most reliable scale currently 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.



High accurac



Digital Urine Specific **Gravity Refractometer**

UG-a

This new Digital Urine Specific Gravity Refractometer UG-α(alpha) is an upgraded version of the UG-1. The minimum scale indication has been improved to display the fourth decimal. After pressing the START key, with the sample placed on the prism, the measurement values will be displayed on the LCD streaming as an electric message board.

Measurement range : Urine S.G. 1.0000 to 1.0600

Minimum indication : 0.0001 Measurement accuracy : ±0,0010

Measurement temperature : 10 to 35°C (Automatic Temperature Compensation)

Sample volume : 0.1ml

: 006P Dry battery (9V) Power supply International Protection Class: IP64 Water Resistant

Dimensions and weight: 17×9×4cm, 300g (main unit only)

Measurement Method



Apply 1 drop of sample solution onto the prism surface.



Press the START/OFF Switch.

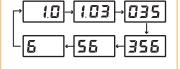


Masurement value displayed in 3 seconds!

The measurement value will scroll from right to left.

*Example of display

Display of the measurement value "1.0356"



Digital Hand-held Compact Refractometer

PAL-10S

Cat.No.4410



The PAL-10S is a digital hand-held compact refractometer that measures Urine Specific Gravity. To operate, simply place a drop of urine on the prism surface and press the START key. The Urine Specific Gravity value will be displayed on the LCD.

Measurement range : Urine S.G. 1.000 to 1.060

Minimum indication : 0.001 Measurement accuracy : ±0.001

Measurement temperature : 10 to 35°C (Automatic Temperature Compensation)

Sample volume : 0.3ml

: 2×AAA Batteries Power supply International Protection Class: IP65 Water Resistant

Dimensions and weight: 5.5×3.1×10.9cm, 100g (main unit only)

Can be washed under running water.





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CLINICAL REFRACTOMETERS -MASTER-

CLINICAL REFRACTOMETER

MASTER-SUR/Nα Cat.No.2771

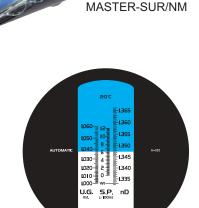
CLINICAL REFRACTOMETER MASTER-SUR/NM Cat.No.2773



The MASTER-SUR/N α and MASTER-SUR/NM are designed for clinical applications: Serum Protein, Urine Specific Gravity and Refractive Index scales. Three scales in one instrument allow for quick and easy

measurements.			
	MASTER-SUR/Nα	MASTER-SUR/NM	
Scale range	Urine S.G.: 1.000 to 1.060, Serum protein: 0.0 to 12.0g/100ml, Refractive Index(nD)1.3330 to 1.3660		
Minimum scale	Urine S.G.: 0.001, Serum protein: 0.2g/100ml, Refractive Index: 0.0005		
Accuracy	Urine S.G.: ±0.001, Serum protein: ±0.2g/100ml, Refractive Index: (nD)±0.0005 (10 to 30°C Automatic Temperature Compensation)	Non Automatic Temperature Compensation	
International Protection Class	IP65 Water Resistant (except for eyepiece)	Non Water Resistant	

3.2×3.4×20.3cm, 105g



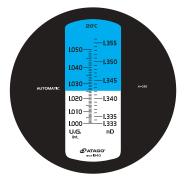


URINE SPECIFIC GRAVITY REFRACTOMETER MASTER-URC/Nα Cat.No.2791

URINE SPECIFIC GRAVITY REFRACTOMETER MASTER-URC/NM Cat.No.2793

The MASTER-URC/NQ and MASTER-URC/NM are designed for clinical applications: specific gravity and refractive index of urine can be measured with only a single drop. These units are very simple to use and easy carry.

MASTER-SUR/Nα



Size & Weight

	MASTER-URC/Nα	MASTER-URC/NM
Scale range	Urine S.G.: 1.000 to 1.050, Refractive Index (nD): 1.333 to 1.356	
Minimum scale	Urine S.G.: 0.001, Refractive Index (nD): 0.001	
Accuracy	Urine S.G.: ±0.001, Refractive Index: (nD)±0.0005 (10 to 30°C Automatic Temperature Compensation)	Non Automatic Temperature Compensation
International Protection Class	IP65 Water Resistant (except for eyepiece)	Non Water Resistant
Size & Weight	3.2×3.4×20.7cm, 110g	

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