



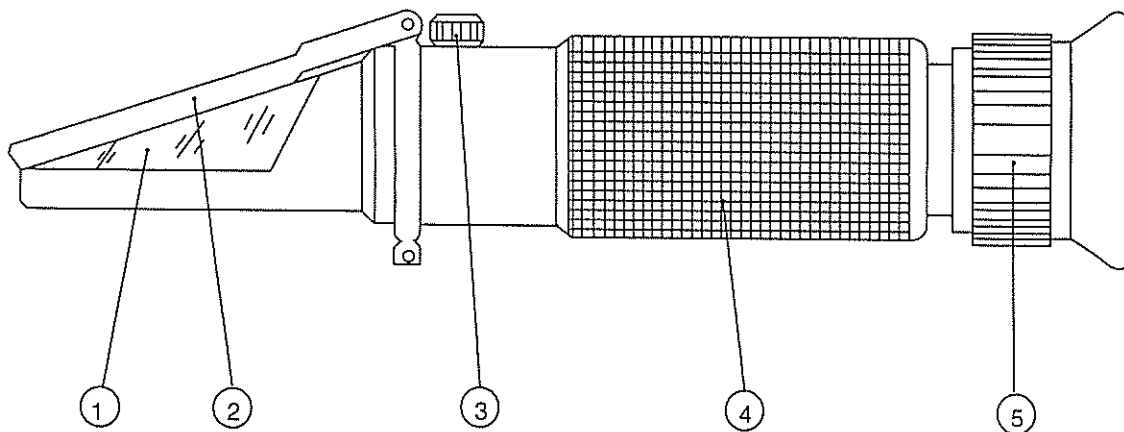
Hand Refractometer Instructions Operating

Hand Refractometer Instructions Operating

SERIES _____

Style	Model	Range	Resolution	Size	Weight
Protein	REF 301	0 to 12 g/dl; 1.000 to 1.040sg	0.2g/dl; 0.002 sg	27×40×160mm	176g
	REF 302	0 to 12g/dl ;1.000 to 1.050 sg; 1.3330 to 1.3600 R1	0.2g/dl;0.002 sg; 0.00028R1	27×40×160mm	176g
	REF 303	0-12g/1000ml 1.000-1.050UG 1.3325-1.3600ND	0.2g/1000ml 0.005UG 0.0005ND	27×40×160mm	176g
	REF 304	0-12g/dl 1.000-1.040UG 1.3330-1.3600ND	0.2g/dl; 0.0005ND 0.005UG	27×40×160mm	176g
Protein/ATC	REF 312	0 to 12g/dl ;1.000 to 1.050 sg; 1.3330 to 1.3600 R1	0.2g/dl 0.002 sg; 0.00025R1	29×40×160mm	200g

NAME OF COMPONENTS _____



1.Prism 2. Cover plate 3. Correct screw 4. Mirror tube 5. Eyepiece(Adjusting ring of diopter)

METHOD OF OPERATION _____

1. Please aim the front of the refractometer to the direction of the bright and adjust the dipoter of the eyepiece with the adjusting ring 5 until the graduation on the reticle can be seen clearly.

2. Adjustment of null:

Open the cover plate 2, please drop one or two drops distilled water on the surface of the prism, and cover the cover plate, please adjust the correcting screw 3 to make the light/dark boundary coincide with

Wt. line.(Protein/ATC Model should adjust at 20°C environmental temperature)

3. Open the cover plate 2. and clean the moisture on the prism surface and cover plate carefully by cotton paper, then drop one or two drops serum (plasma), cover the cover plate, press lightly, then you can take the value from the graduation on the position of the light/ dark boundary which directly indicate the concentration of albumen.
4. When measure the specific gravity of urine, you can use the same mentioned operations.
5. After the measurement, clean serum and urine on the prism and surface of the cover plate. After drying, please keep appropriately in store.

ATTENTIONS AND MAINTENANCE _____

1. Adjusting the null liquid and specimen should be under the same temperature, if the temperature varied greatly, the null point should be adjusted once per 30 minutes.
2. When measure the specific gravity of urine With albumen and the sugar content in urine are over 1%. According to calculation, count the measured value.
The protein of 1% is mixed. The specific gravity is more than 0.005.
The sugar of 1% is mixed. The specific gravity is more than 0.004.
3. After usage, don't use water to wash the instrument.
4. As it is a kind of precision optical instrument, you should hand it gently and take good care of it. Don't touch and scratch the optical surfaces. It should be kept in the environment of dry, clean and non-corrosiveness air, so as to prevent the surface of it turning mouldy and foggy. Please avoid strong shock during transportation.
5. If the consumers use the instrument in accordance with the mentioned method of usage, it guarantee that instrument can't break down. The optical performance can't change.

ACCESSORY: _____

- | | |
|------------------|---|
| 1. Eyeshade | 1 |
| 2. Suction tube | 1 |
| 3. Leather cover | 1 |
| 4. Screw driver | 1 |