Hemoglobin Test Kit

REF	Pack Size	Reagent 1
HGBLMS01	1×1000 ml	1×1000 ml

INTENDED USE
Hemoglobin reagent is used for quantitative estimation of hemoglobin concentration in human Blood.

CLINICAL SIGNIFICANCE
Decreased blood levels are associated with various anemias. Increased levels are observed in patients with polycythemia or dehydrations

METHOD: Colorimetric, Sodium Lauryl Sulphate Method (potassium Cyanide Free) End Point.

TEST PRINCIPLE:
Cyanmethemoglobin method recommended by ICSH is used for measurement of hemoglobin, the presence of potassium cyanide in the formulation constitutes toxic hazard to the user & from the point of its safe disposal. Lordsmark Hemoglobin-SLS is free from potassium cyanide, stable, nontoxic reagent.

KIT CONTENTS/COMPONENTS
Reagent 1: SLS reagent

MATERIAL REQUIRED BUT NOT PROVIDED
Laboratory instrumentation, spectrophotometer UV/VIS with thermostatic cuvette holder or clinical chemistry analyzer: semi-automated, calibrated micropipettes, glass or high-quality polystyrene cuvettes, test tubes/rack, heating bath, controls, saline.

SAFETY PRECAUTIONS AND WARNINGS
1.For in-vitro diagnostics use only.
2.Do not pipette by mouth. Avoid contact with skin and eyes. If spilt thoroughly wash affected area with water.
3.Do not use the reagent after the expiration date printed on the kit.

REAGENT PREPARATION, STORAGE AND STABILITY
Reagent 1 is ready to use. Hemoglobin reagent is stable at 20-35°C until the expiry date stated on the label.

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SPECIEMEN
Fresh blood from finger prick is preferred. Anticoagulated whole blood EDTA can be used is stable for one week at 2° - 8°C

PROGRAM

Reaction Mode	End Point
Wavelength	546 nm
Light Path	10 mm
Blanking	Reagent Blank
Reagent Volume	1000 µl
Sample Volume	10 µl
Incubation	5 Min RT
Factor	14.8 g/dl
Linearity	20 g/dl

PROCEDURE

	Blank	Sample
Reagent	1000 µl	1000 µl
Distilled Water	10 µl	-
Sample	-	10 µl

Mix well and incubate for 5 minutes at room temperature read absorbance of sample against reagent blank at 546nm.

CALCULATION:
Concentration of sample = Abs of sample x Factor (14.8g/dL)

NORMAL VALUES:
Newborns: 16 to 25 g/dl
Infants : 11 to 14 g/dl
Male : 13.9 to 16.3 g/dl
Female : 12 to 15 g/dl

LIMITATIONS
If the value exceeds 20mg/dl, dilute the sample with 0.9% saline solution rerun and result multiplied by dilution factor.

QUALITY CONTROL AND CALIBRATION
It is recommended to perform internal quality control with assayed normal and assayed abnormal, to confirm the validity of the test and assure the accuracy of patient result. Using the recommended calibrator or the Standard included, calibrate the assay.
1.When using a new reagent or lot
2.When QC values are out of range
It is recommended that each laboratory should assign its own normal range.

WASTE DISPOSAL
This Product is made to be used in professional laboratories.

HIGHLIGHT
1.The Reagents are sensitive to light & higher temperature. Reagents may develop a slight yellow coloration on ageing which does not interfere with the functionality of reagent.
2.If the volume of the reagent is not sufficient to fill the cuvette, double all the specified volumes.
3.Storage condition mentioned on the kit is to be maintained.
4.Do not freeze or expose the reagents to higher temperature as it may affect the performance of the kit.
5.Before testing bring the reagents to the specified temperature.
6.Avoid reagents contamination.
7.Every time use new pipette-tips for pipetting out the reagents.
8.These Reagent kits meant for laboratory / professional use only, not for Drug use.

REFERENCE
Sir John V. Dacie and S.M. Lewis., Practical hematology.,8th edition.
Bauer, J.D., Hemoglobin. Clinical Chemistry, Theory, Analysis, and correlation (Mosby ed.) 33 (1989),513-517.
Lords Data File.

REF	Catalog No.	Σ	Contain Sufficient for test
LOT	Batch No.		Instruction for use
	Manufacturing Date	IVD	*In-vitro* Diagnostics
	Expiry Date		Storage temperature
	Manufacturer		

IFU/HGB/01 Rev.: 00; Rev Dated.: 22/07/2024

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