

Calibration

Every Hipro LDL-C test kit contains specific information for calibration of the particular reagent lot, in the barcoded label on cuvette.

Renewed calibration is recommended as follows:

- after 1month(28days) when using the same reagent lot .
- before using new lot of reagent .

Quality Control

It is recommended that each laboratory routinely uses quality control materials and establish its own control ranges. The control intervals and limits should be adapted to each laboratory’s individual requirements. Multi-level controls should be tested in each LDL-C run. The LDL-C values obtained with the quality control material should not repeatedly fall outside the control ranges established in each laboratory. Suitable or published control material can be used.

Reference Value

The normal reference range should be < 4mmol/L.

The value is indicative only and may differ from other published values as a result of differences in methods and in the population being studied. It is recommended that each laboratory establish its own reference range.

Interpretation

Result≥4.00mmol/L indicates a risk of coronary atherosclerosis, and further examination and treatment are recommended.

Limitations

When bilirubin≤150μmol/L, hemoglobin≤5g/L, triglyceride≤0.3%, VC≤0.3g/L, it has no interference to this determination.

Interpretation

1.Linearity range:

0.25mmol/L ~ 25.8mmol/L, r≥0.995.

The linear deviation within the range of [0.25 - 3]mmol/L should not exceed ±0.2mmol/L;

The linear deviation within the range of (3 - 25.8]mmol/L should not exceed ± 10%.

2.Limit of Blank

Reagent blank absorbance< 0.05.

3.Precision

Within-lot precision (CV) ≤ 3%

Between-lot precision(R) ≤ 10%

4.Analytical sensitivity

When 1.00mmol/L sample was determined, the absorbance difference ΔA > 0.03

5.Accuracy

Relative deviation (B) shall not exceed ±10%

6.Precision

Test the control material by Low Density Lipoprotein Cholesterol Test Kit (Direct method - surfactant Clearance Method).2 times per day for 20 days (n=80) according to EP5-A2 of CLSI.

The data as below:

a.

HP-AFS/3 Automatic Immunoassay System					
Sample	Mean mmol/L	Within-Run		Between-Run	
		S.D.	%C.V.	S.D.	%C.V.
Control 1	2.46	0.054	2.2	0.056	2.3
Control 3	5.68	0.098	1.7	0.151	2.7

b.

HP-AFS/1 Automatic Immunoassay System					
Sample	Mean mmol/L	Within-Run		Between-Run	
		S.D.	%C.V.	S.D.	%C.V.
Control 1	2.53	0.048	1.9	0.21	1.7
Control 2	5.74	0.117	2.0	0.38	2.8

7. Methodology comparison

Compared to LDL-C LIA(x) by test the same serum sample, the relative data as below:

HP-AFS/3 Automatic Immunoassay System				
Site No.	Sample Type	No.of Assays	Regression Line	Coefficient correlation
1	Serum	50	Y= 1.01X+0.27	0.97

The concentration of sample is about 0.25mmol/L ~ 25.8mmol/L.

Precautions

⚠ Attention:

For in vitro diagnostic use

Only experienced laboratory personnel should use this test and handling all laboratory reagents should be based on normal precautions required.

Safety precautions

- 1.Do not smoke, eat or apply cosmetics in areas in which patients’ samples or kit reagents are handled.
- 2.Laboratory gloves should be worn while handling patients’ samples or disposing of solid or liquid wastes.
- 3.Disposal of all waste material should be in accordance with local guidelines.

Potential biohazard warning

Some reagents of Hipro test kits contain material of animal origin, even if they are certified as deriving from healthy animals, it is recommended to handle them with the same precaution used for potentially infectious samples.

Limitations-interference

Bilirubin ≤150μmol/L, hemoglobin ≤5g/L, triglyceride ≤0.3%, VC≤0.3g/L have no influence on the determination. For diagnostic purposes, the results obtained from this assay should always be used in combination with the clinical examination, patient medical history, and other findings.

Risk Phrases

R 36/38 Irritating to eyes and skin














Safety Phases

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek for medical advice.

S 37 Wear suitable gloves

S 60 This material and /or its container must be disposed of as hazardous waste.

SYMBOLS USED ON LABELS

Symbol	Usage	Symbol	
	Use-By date		Do not freeze
	Batch code		Biological risks
	Manufacturer		Do Not Reuse
	Temperature Limit		
	Contains sufficient for <n> tests		
	Do not use if package is damaged		
	Consult Instructions for use		
	Keep Away from Sunlight		
	In Vitro Diagnostic Medical device		
	Authorized Representative in the European Community		

References

Shang Hong, Wang Yusan, Shen Ziyu et al. National Clinical Laboratory Operating Procedures (4th edition) [M]. Beijing: People’s Medical Publishing House, 2015:323-326.

Approval Date&Revision Date

Approval Date: Sept 9,2015

Revision Date: Jul 15, 2021

Revision Date: Jan 1, 2023

Revision Date: Dec 22,2023

尺寸:24*25cm展开尺寸,横向三折页再垂直方向两次对折