

Application sheet

Precision

Reproducibility was determined using three levels of pooled human sera as shown below:

Serum pool	n=20			n=40		
	Mean mg/dl	SD mg/dl	%CV	Mean mg/dl	SD mg/dl	%CV
Low (<40 mg/dl)	32.9	0.3	0.8	32.8	0.4	1.3
Mid (40 - 59 mg/dl)	50.6	0.2	0.5	50.0	0.7	1.5
High (>60 mg/dl)	101.4	0.7	0.7	100.1	1.1	1.1

Co - Relation Studies

A comparison of HDL-C determination using AutoPure HDL-C and the Designated Comparison Method (DCM) gave the following co-relation (mg/dl):

Linear Regression

$$y = 0.99x + 2.81$$

$$r = 0.996$$

No of samples measured : 52

References

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- Barr, D.P. Russ, E.M. Eder, H.A. Protein lipid relationships in human plasma. *Am J. Med.* 1951; 11: 480.
- Gordon, T. et al. high density lipoprotein as a protective factor against coronary heart disease. *Am. J. Med.* 1977; 62:707
- Williams, P., Robinson, D., Baily, A. high density lipoprotein and coronary risk factor. *Lancet* 1979; 1:72.
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Designations
 Code: Name: Type: Group:

1 - Pipetting

 Reagent 1 ID:
 Reagent 1 bottle:
 Reagent 2 ID:
 Reagent 2 bottle:
 Sample vol: 1st μ l 2nd μ l
 Reagent 1 vol: μ l μ l
 Reagent 2 vol: μ l μ l
 Diluent vol: μ l

3 - Wavelengths

 Wavelength 1: nm

7 - Autodilution

 Rate:
 Max OD: Abs

9 - Pathological ranges

Minimum	Sample type	Maximum
30	Men	70
30	Women	85

2 - Time

 Incubation 1: Sec
 Incubation 2: Sec
 Reading: Sec

4 - Washing

 Needle:
 Cuvette:

8 - Dilutions

 Serum
 1:1 1:2 1:4
 1:10 1:40 1:100
 Urine
 1:1 1:2 1:4
 1:10 1:40 1:100

5 - Incompatibility

 1
 2
 3
 4

6 - Limits

 Blank OD min: Abs
 Blank OD max: Abs
 Reaction slope:

10 - Results units

 Units 1:
 Units 2:
 Conversion :
 Decimal digits:

* User defined ** User defined based on calibration

Designations
 Code: Name: Type: Group:

Calibration

General

 Number of standards:
 Validity (hours):

Factor:
 Interpolation type:

Standards

Single	Calibrator	Dilution rate	Lot	Primary concent	Final concent	OD value	Date
<input type="checkbox"/>	HDL-C	<input type="text" value="1"/>	1	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/>	HDL-C	<input type="text" value="1"/>	2	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/>	HDL-C	<input type="text" value="1"/>	3	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

Current Calibration

Lot	Primary concent	Final concent	OD value	Date
1	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
2	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
3	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

Reagent blank Blank Correction

Validity # hours

OD

Date

Correlation

$$Y = \text{input} X + \text{input}$$

Recommended value