

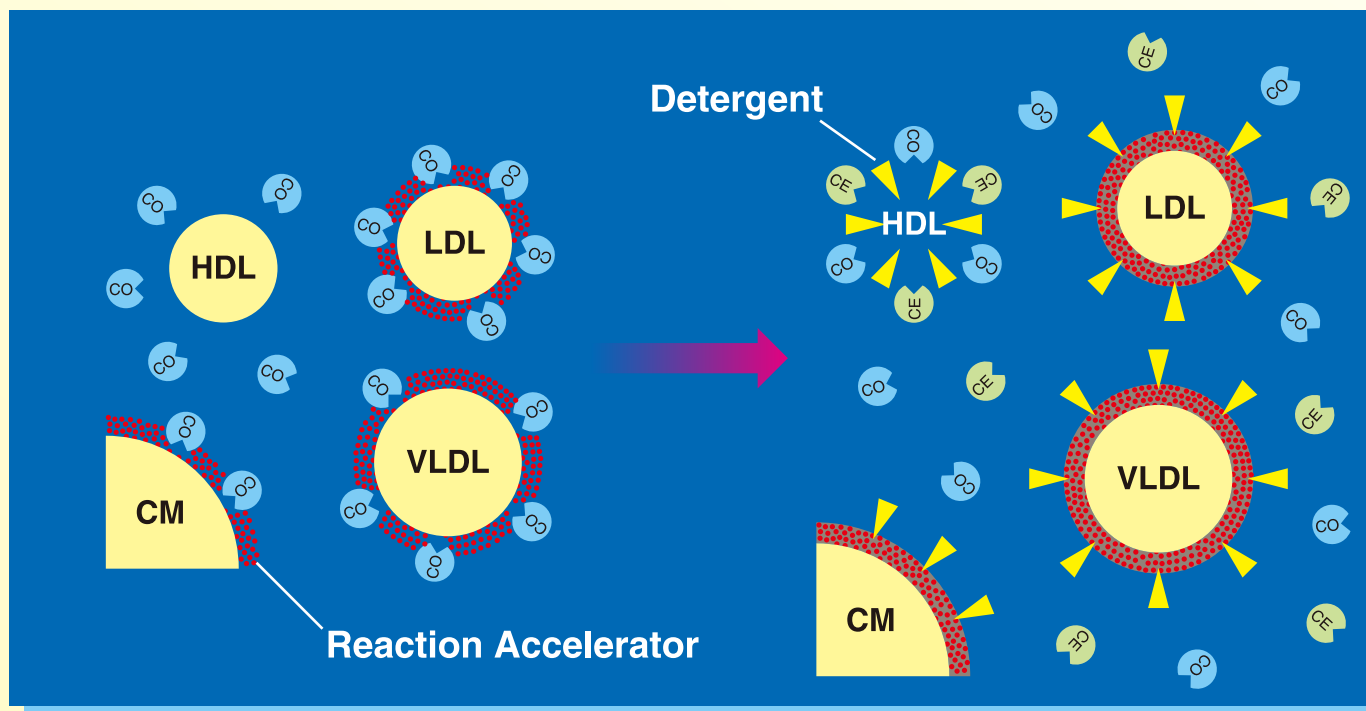
HDL-CHOLESTEROL-DIRECT

For Quantitative determination of HDL cholesterol in serum

- ★ *Accuracy.....*
- ★ *Traceability.....*
- ★ *Quality.....*

- Certificate from C.D.C shows an excellent accuracy in measurement.
- Traceability to **SRM911(NIST)** and to **JCCRM224** is established.
- Our product doesn't have interference of high triglyceride, high immunoglobulin, and poly-anion as component.

SRM911(NIST): Primary Reference Material of Cholesterol, **JCCRM224**: Reference Material of HDL-C for Laboratory in Japan



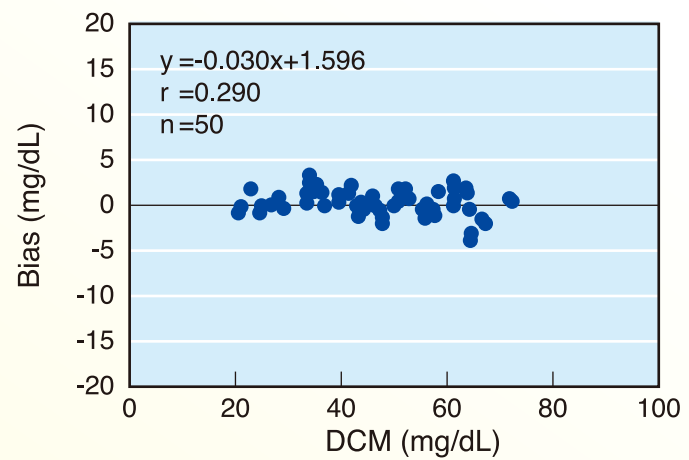
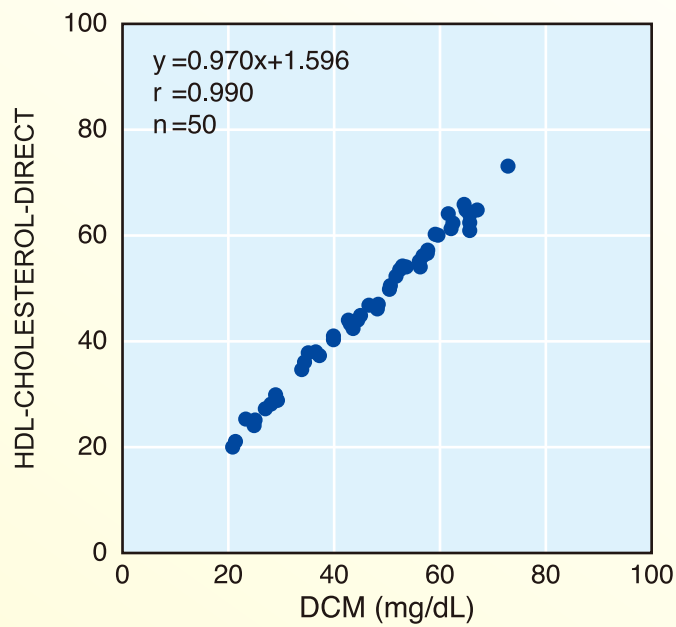
1st Reaction

Action of Reaction Accelerator (Patent pending) allows free Cholesterol existing on the surface layer of LDL or VLDL to react with cholesterol oxidase. H₂O₂ generated from reaction is eliminated by POD, and no colors are developed.

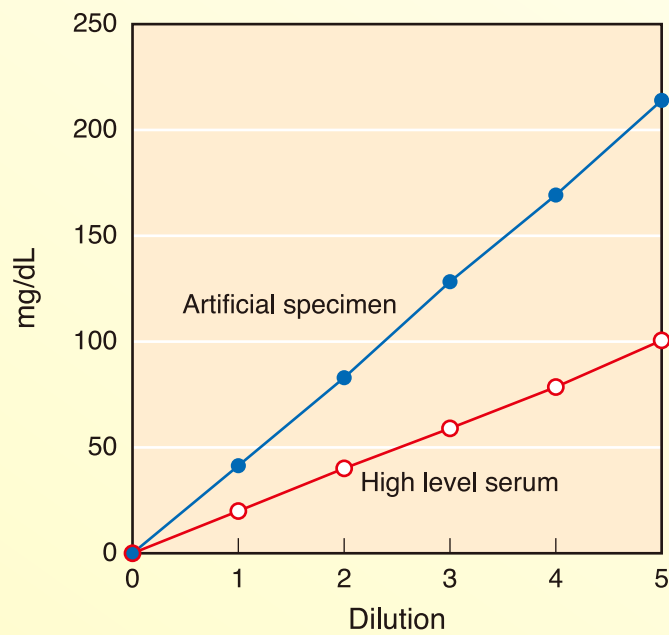
2nd Reaction

Action of special detergent allows only HDL to solubilize, and as a result, HDL-Cholesterol can react with cholesterol oxidase and cholesterol esterase. H₂O₂ generated from reaction develops colors with POD-AAP.

Correlation (DCM v.s. HDL-CHOLESTEROL-DIRECT)

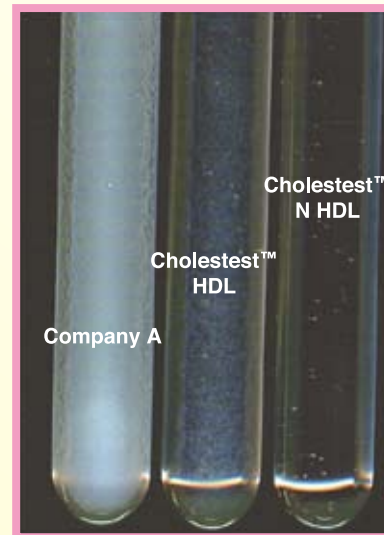


Linearity



Turbidity by contamination of Mg

Mg concentration
 Company A: 31.7mmol/L (actual values)
 HDL-CHOLESTEROL-DIRECT: 3.7mmol/L
 HDL-CHOLESTEROL-DIRECT: Nothing contained



Product Name	Package
HDL D-80 with Calibrator	2x30,2x10
HDL D-160 with Calibrator	4x30,4x10
HDL-D 320 with Calibrator	4x60,4x20
HDL D-120 System Pack	3x30,3x10
HDL-LDL Combo with Calibrator	2x30,2x10-1x30,1x10
HDL/LDL Calibrator	1x2
HDL/LDL Control (L1 & L2)	2x1

Storage temperature: 2-10°C



A-1, Community centre, Naraina Industrial Area,
 Phase-II, New Delhi-110028
 Ph: 011-43136000, 47605000 • Fax:011-25893497
 Email.: diagnostics@keepharma.com

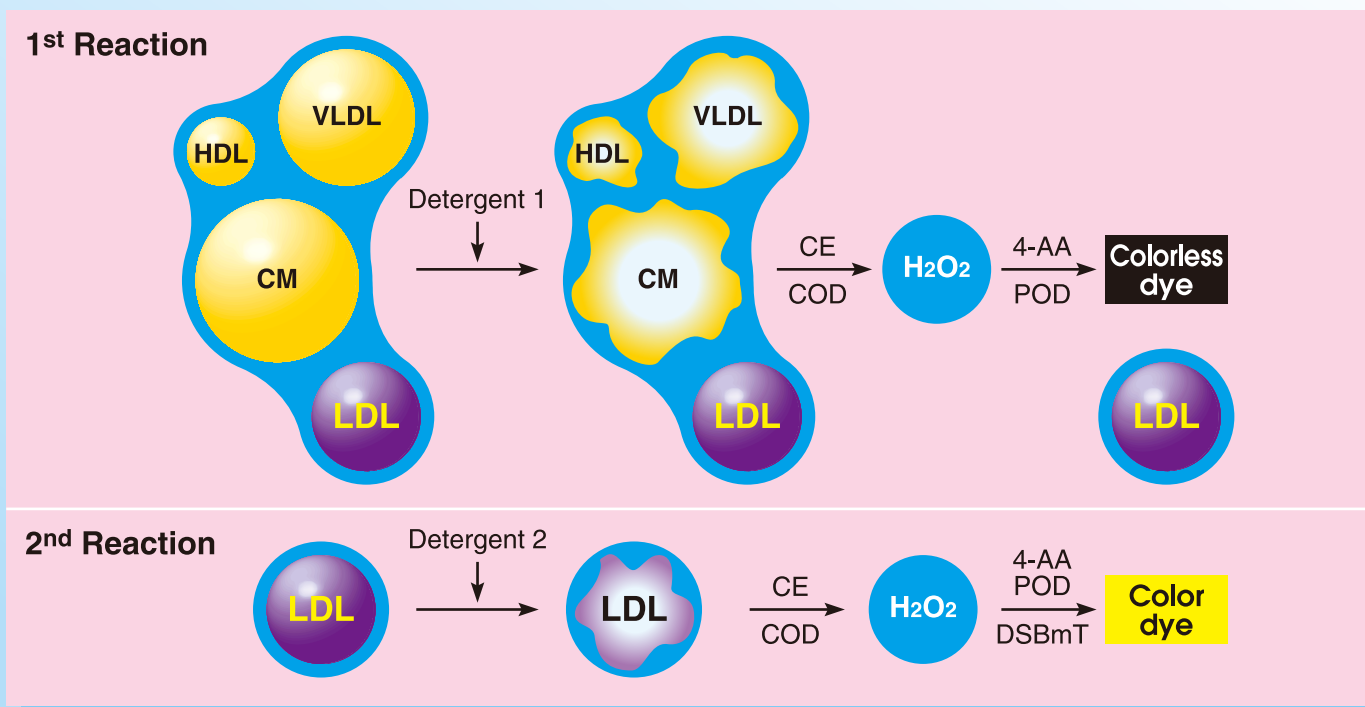
LDL-CHOLESTEROL-DIRECT

For Quantitative determination of LDL cholesterol in serum

★ *Accuracy.....*
★ *Traceability.....*
★ *Quality.....*

- Certificate from C.D.C shows an excellent accuracy in measurement.
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- Our product doesn't have interference of high triglyceride, high immunoglobulin, and poly-anion as component.

SRM911(NIST): Primary Reference Material of Cholesterol, JCCRM224: Reference Material of LDL-C for Laboratory in Japan



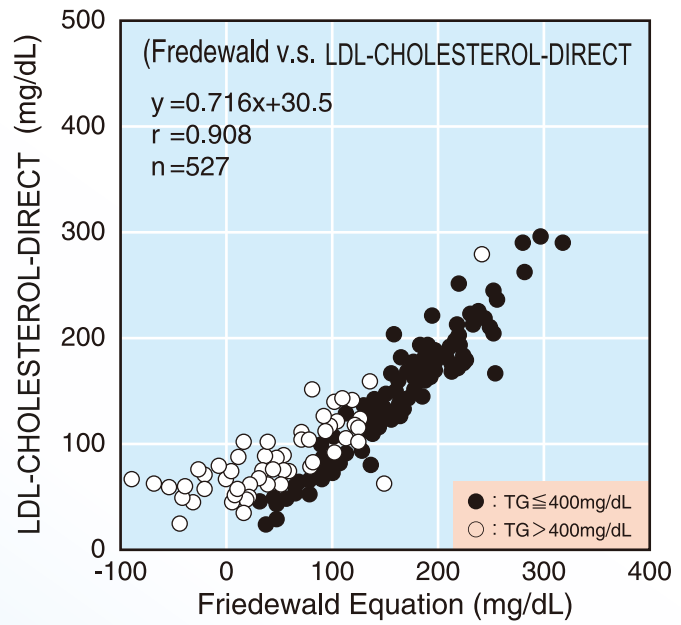
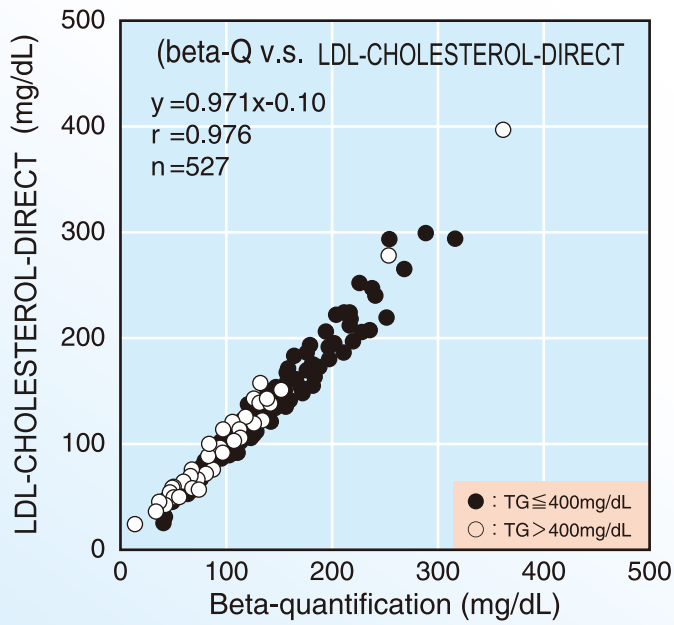
1st Reaction

Detergent1 allows Cholesterol esterase and Cholesterol oxidase to react with HDL, VLDL and CM. H₂O₂ generated from reaction is eliminated by POD, and no colors are developed.

2nd Reaction

Action of special detergent2 allows only LDL to solubilize, and as a result, LDL-Cholesterol can react with cholesterol oxidase and cholesterol esterase. H₂O₂ generated from reaction develops colors with

Correlation (DCM v.s. LDL-CHOLESTEROL-DIRECT)



NCEP Guideline (LDL-C)

**TREATMENT DECISIONS
BASED ON LDL-CHOLESTEROL-DIRECT**

Dietary Therapy		
	Initiation Level	LDL Goal
Without CHD and with fewer than 2 risk factors	≥160 mg/dL (4.1 mmol/L)	<160 mg/dL
Without CHD and with 2 or more risk factors	≥190mg/dL (3.4 mmol/L)	<130 mg/dL
With CHD**	>100 mg/dL (2.6 mmol/L)	≤100 mg/dL

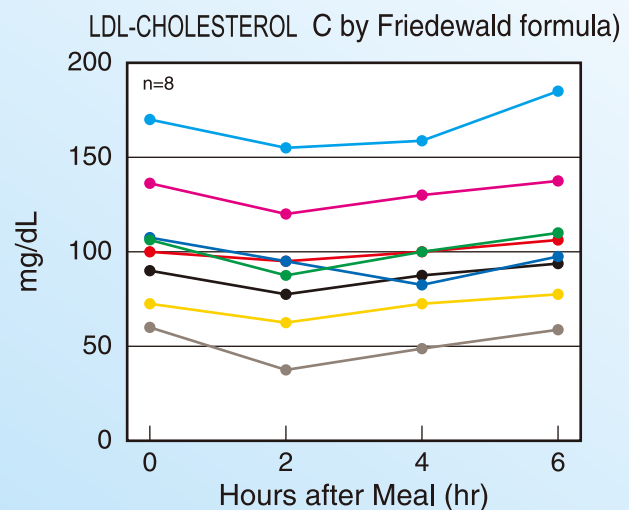
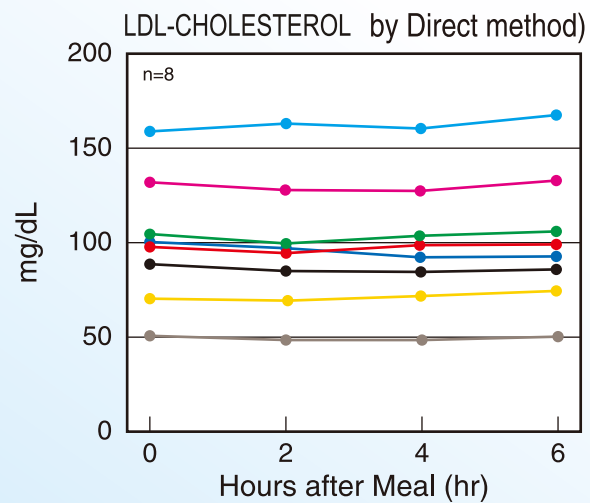
Drug Treatment		
	Consideration Level	LDL Goal
Without CHD and with fewer than 2 risk factors	≥190 mg/dL* (4.9 mmol/L)	<160 mg/dL
Without CHD and with 2 or more risk factors	≥160 mg/dL (4.1 mmol/L)	<130 mg/dL
With CHD	≥130 mg/dL (3.4 mmol/L)	≤100 mg/dL

* In men under 35 years of age and premenopausal women with LDL-cholesterol levels 190-219 mg/dL (4.9-5.7 mmol/L), drug therapy should be delayed except in high-risk patients such as those with diabetes.
 ** In CHD patients with LDL-cholesterol levels 100-129 mg/dL (2.6-3.3 mmol/L), the physician should exercise clinical judgment in deciding whether to initiate drug treatment.

Product Name	Package
LDL D-40 with Calibrator	1x30,1x10
LDL D-160 with Calibrator	4x30,4x10
LDL D-320 with Calibrator	4x60,4x20
LDL D-120 System Pack	3x30,3x10
HDL-LDL Combo with Calibrator	2x30,2x10-1x30,1x10
HDL/LDL Calibrator	1x2
HDL/LDL Control (L1 & L2)	2x1

Storage temperature: 2 - 10°C

Effect of meal



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 Email.: diagnostics@keepharma.com