

# genzyme diagnostics news



Independent study demonstrates outstanding performance of Genzyme Diagnostics HDL and LDL cholesterol reagents!

**Study title:** Seven Direct Methods for Measuring HDL and LDL Cholesterol Compared with Ultracentrifugation Reference Measurement Procedures<sup>1</sup>

**Study details:** Methods from 7 manufacturers and 1 distributor for directly measuring HDL cholesterol (C) and LDL-C were evaluated for imprecision, trueness, total error, and specificity in nonfrozen serum samples<sup>1</sup>

**Summarized version of Table 1:** Percentage of results within the NCEP total error (TE) requirements for a single measurement of each patient’s serum<sup>1</sup>

	%HDL-C results within TE requirement, Non-diseased (32 – 94 mg/dL, 0.83 – 2.43 mmol/L)*	%HDL-C results within TE requirement, Diseased (4 – 125 mg/dL, 0.10 – 3.24 mmol/L)*	%LDL-C results within TE requirement, Non-diseased (49 – 153 mg/dL, 1.27– 3.96 mmol/L)**	%LDL-C results within TE requirement, Diseased (3 – 301 mg/dL, 0.08 – 7.80 mmol/L)**
<b>Sekisui/Genzyme</b> (Accelerator Selective Detergent/Selective Detergent)***	100	96.4	100	91.1
Roche (Modified Enzymatic (PEG)/Direct Surfactant)***	97.3	95.6	91.9	77.0
Wako (Immunoinhibition (Ab)/Selective Detergent)***	100	74.5	97.3	87.4
Denka (Elimination/Clearance)***	100	92.7	89.2	85.2

\* Total error criteria for HDL is: 95% of results ≤13% (with desirable imprecision ≤4% and bias ≤5%)

\*\* Total error criteria for LDL is: 95% of results ≤12% (with desirable imprecision ≤4% and bias ≤4%)

\*\*\* Methodology as reported by CAP and other external proficiency testing schemes

■ **To learn more**, we encourage you to visit the following website and gain access to the full publication: [www.clinchem.org/cgi/content/short/56/6/977](http://www.clinchem.org/cgi/content/short/56/6/977)

■ **If your method isn't** Genzyme, ask why?

■ **If your method is** Genzyme feel free to share this information with your customers.

■ **Contact us** at [usdiagcustomerservice@genzyme.com](mailto:usdiagcustomerservice@genzyme.com) or contact your Sales Manager.



<sup>1</sup> Miller WG, et al. Seven Direct Methods for Measuring HDL and LDL Cholesterol Compared with Ultracentrifugation Reference Measurement Procedures. *Clinical Chemistry* 2010; 56:6; 977-986.