

HDL-c direct FS

New direct homogeneous assay



Reliable atherosclerotic risk assessment
DiaSys. Total confidence in patient results.
www.diasys-diagnostics.com

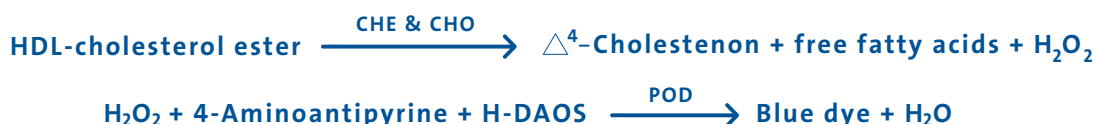
DiaSys

Diagnostic Systems

CHOOSING QUALITY.

New DiaSys method

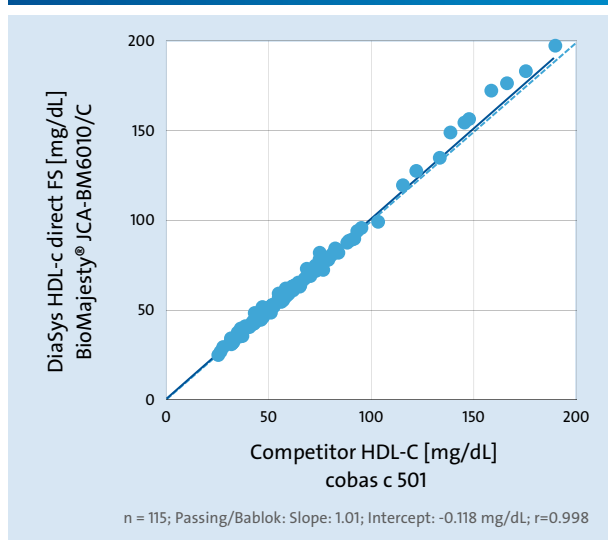
Previous HDL-cholesterol [HDL-C] determinations were performed by time-consuming precipitation methods or ultracentrifugation (reference method combined with cholesterol measurement by Abell-Kendall). However, direct determination of HDL-C is used in routine.¹ HDL-c direct FS is a homogeneous method for HDL-C measurement without centrifugation steps. Block polymer detergents protect LDL [Low Density Lipoprotein], VLDL [Very Low Density Lipoprotein] and chylomicrons in a way that only HDL-C is selectively determined by enzymatic cholesterol measurement.²



Performance characteristics

Precision		
In series N=20	Mean [mg/dL]	CV [%]
Sample 1	17.9	1.52
Sample 2	43.7	1.29
Sample 3	184	0.661
Total precision N=80	Mean [mg/dL]	CV [%]
Sample 1	17.9	2.26
Sample 2	44.7	1.86
Sample 3	186	1.80

Method comparison

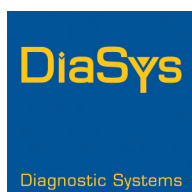


Features and benefits

- Direct homogeneous assay - no sample pre-treatment
- Liquid-stable, ready-to-use reagent
- Wide measuring range up to 200 mg/dL
- No significant interferences by lipemia, hemolysis, and icterus
- Good precision with total coefficient of variation (CV) < 2.27 % and intra-assay CV < 1.53 %
- Good comparability to competitor assays
- Superior onboard and calibration stability of 12 weeks
- Standardized to a commercially available assay which is standardized against the designated CDC reference method (ultracentrifugation method)

References

- 1 Langlois MR, Blaton VH. Historical milestones in measurement of HDLcholesterol: Impact on clinical and laboratory practice. Clin Chimica Acta 2006;369:168-178.
- 2 Miida T, Nishimura K, Okamura T, et al. Validation of homogeneous assays for HDL-cholesterol using fresh samples from healthy and diseased subjects. Atherosclerosis 2014;233(1):253-9.



DiaSys
Diagnostic Systems GmbH
 Alte Strasse 9
 65558 Holzheim
 Germany

Phone: +49 6432 9146-0
 Fax: +49 6432 9146-32
 E-Mail: info@diasys.de
www.diasys-diagnostics.com



2022-10

CHOOSING QUALITY.