

LPL/HTGL Activity Assay Kit - IBL

Research Use Only

Features

- ★ LPL and HTGL activities can be measured simultaneously.
- ★ Excellent reproducibility can be obtained with an easy operation.
- ★ No disturbance caused by co-existing substances.
- ★ It can be applied for standard automated machines.

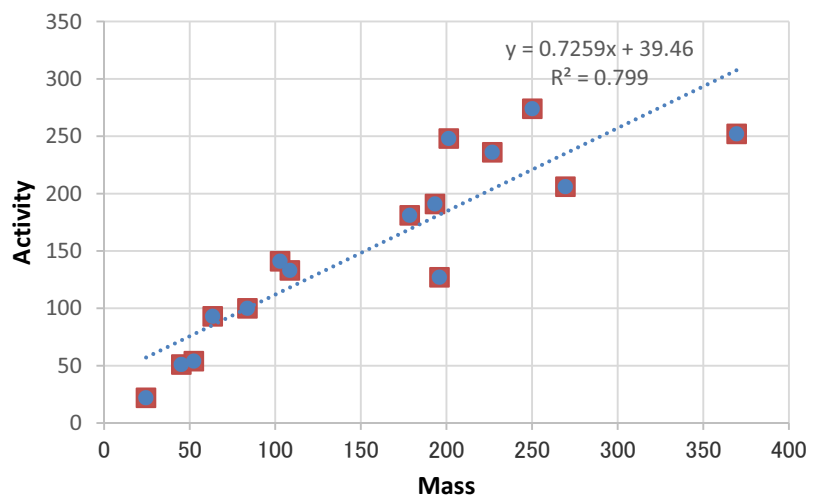
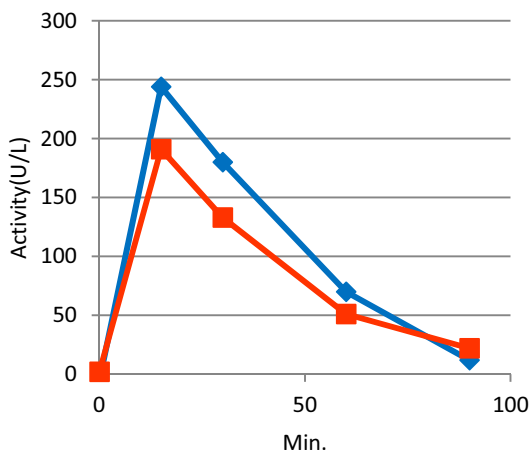
Principal for Measurement (Enzymatic method)

Diglyceride (DG) is used as a substrate as similar acting as triglyceride (TG) against to LPL for reaction of LPL. Free fatty acid and monoglycerides (MG) are produced and LPL and HTGL activities can be measured by increase rate of chromogenic reaction caused by combination of MG lipase and conjugated reaction. LPL activity can be specifically measured by adding apolipoprotein CII (ApoCII) as activating substance for expression of LPL activity.

Product Code	Product Name	Package Size (1 kit) ※	Measurement Range	Measurement samples		
				Serum	Plasma	EDTA-plasma (Post-heparin)
27185	LPL/HTGL Activity Assay Kit - IBL	R1A, B 5mL × 2 each R1 Solvent 5mL × 4 R2 Color Reagent 5mL × 2 Calibrator 0.5mL × 2	135~431U/L (HTGL) 30~153U/L (LPL)	—	—	○

#27264 LPL/HTGL Activity Control Plus Kit – IBL is also available. #27264 contains Control set.

LPL(mass-activity)



Measurement example using healthy subject heparin-plasma that collected after administration of heparin injection (30 units/kg) in series. LPL: — HTGL: —

Correlation between LPL activity and LPL (mass) using heparin plasma sample collected after administration of heparin injection

Reference: [A novel method for measuring human lipoprotein lipase and hepatic lipase activities in postheparin plasma.](#) Imamura S, Kobayashi J, Nakajima K, Sakasegawa S, Nohara A, Noguchi T, Kawashiri MA, Inazu A, Deeb SS, Mabuchi H, Brunzell JD. J Lipid Res. 2008 Jul;49(7):1431-7. doi: 10.1194/jlr.M700528-JLR200. Epub 2008 Mar 14. PMID: 18344410