

## Native Microorganism Lipoprotein lipase

### Product Information

<b>Cat#</b>	DIA-211
<b>Similar</b>	LPL
<b>Source</b>	Microorganism
<b>Description</b>	Lipoprotein lipase (LPL) (EC 3.1.1.34) is a member of the lipase gene family, which includes pancreatic lipase, hepatic lipase, and endothelial lipase. It is a water soluble enzyme that hydrolyzes triglycerides in lipoproteins, such as those found in chylomicrons and very low-density lipoproteins (VLDL), into two free fatty acids and one monoacylglycerol molecule. It is also involved in promoting the cellular uptake of chylomicron remnants, cholesterol-rich lipoproteins, and free fatty acids. LPL requires ApoC-II as a cofactor.
<b>Activity</b>	GradeIII 1.0U/mg-solid or more
<b>CAS No.</b>	9004-02-8
<b>Synonyms</b>	Lipoprotein lipase; LPL; EC 3.1.1.34; Clearing factor lipase; Diacylglycerol lipase; Diglyceride lipase
<b>Enzyme Commission Number</b>	EC 3.1.1.34
<b>pH Stability</b>	pH 5.5-10.0 (25°C, 20hr)
<b>Optimum pH</b>	8
<b>Optimum temperature</b>	40-45°C
<b>Thermal stability</b>	below 40°C (pH 7.0, 15min)
<b>Stability</b>	Store at -20°C
<b>Stabilizers</b>	Mg??, bovine serum albumin
<b>Inhibitors</b>	Hg??, Cu??

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<b>Contaminants</b>	Phosphatase $1.0 \times 10^{2-3}$ % Catalase $2.0 \times 10^{2-2}$ % NADH oxidase $1.0 \times 10^{2-3}$ % Cholesterol oxidase $2.0 \times 10^{2-3}$ %
<b>Abbr</b>	LPL (Microorganism)
<b>Alias</b>	LPL
<b>Applications</b>	This enzyme is useful for enzymatic determination of triglyceride in serum when coupled with L-a-glycerophosphate oxidase and glycerol kinase. Usually, the reaction can be completed in 5 minutes at 37°C by using 2.5~3.0 units of the enzyme per test (3.0ml) at pH around 7.0.
<b>Appearance</b>	Light brown amorphous powder, lyophilized