





## Rat Lecithin Cholesterol Acyltransferase(LCAT) **ELISA Kit**

Product Code	CSB-E14201r			
Protein Biological Process 2	Lipogenesis and lipometabolism			
Abbreviation	LCAT			
Protein Biological Process 1	Biosynthesis/Metabolism			
Target Name	lecithin-cholesterol acyltransferase			
Uniprot No.	P18424			
Product Type	ELISA Kit			
Immunogen Species	Rattus norvegicus (Rat)			
Protein Biological Process 3	Cholesterol metabolism			
Sample Types	serum, plasma, tissue homogenates			
<b>Detection Range</b>	1.87 ng/mL-120 ng/mL			
Sensitivity	0.94 ng/mL			
Assay Time	1-5h			
Sample Volume	50-100ul			
<b>Detection Wavelength</b>	450 nm			
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.			
Research Area	Metabolism			
Gene Names	Lcat			
Tag Info	quantitative			
<b>Protein Description</b>	Competitive			
Description	This Rat LCAT ELISA Kit was designed for the quantitative measurement of Rat LCAT protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 1.87 ng/mL-120 ng/mL and the sensitivity is 0.94 ng/mL.			
Target Details	This gene encodes the extracellular cholesterol esterifying enzyme, lecithin-cholesterol acyltransferase. The esterification of cholesterol is required for cholesterol transport. Mutations in this gene have been found to cause fish-eye disease as well as LCAT deficiency.			

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Product Precision	Three samples of	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate				
		to assess.				
	•	Inter-assay Precision (Precision between assays): CV%<10%				
	Three samples of known concentration were tested in twenty assays to assess.					
	assess.					
Linearity	To assess the linearity of the assay, samples were spiked with high					
	concentrations of rat LCAT in various matrices and diluted with the Sample					
		Diluent to produce samples with values within the dynamic range of the assay.				
		mple	Serum(n=4	)		
	1:100 Av	erage %	102			
	Ra	nge %	92-107			
	1:200 Av	erage %	88			
	Ra	nge %	84-93			
	Av. 400	erage %	101			
	1:400 Ra	nge %	94-105			
	Ave	erage %	102			
	1:800 Ra	nge %	92-105			
Recovery	The recovery of rat LCAT spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.					
	Sample Type	-	ge % Recovery	Range		
	• • •	90	je /u recovery	85-96		
	Serum (n=5)					
	EDTA plasma (n=	-4) 102		92-107		

**Typical** 

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.

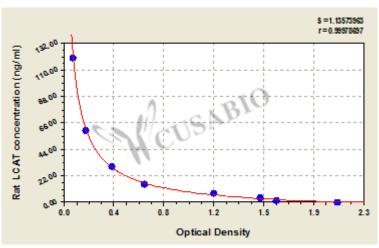












ng/ml OD1 OD2 Average

120 0.075 0.079 0.077

60 0.172 0.178 0.175

30 0.374 0.382 0.378

15 0.634 0.624 0.629

7.5 1.178 1.146 1.162

3.75 1.504 1.533 1.519

1.87 1.673 1.622 1.648

0 2.155 2.078 2.117