

# Lipase Color

FOR THE QUANTITATIVE MEASUREMENT OF LIPASE

**METHOD: ENZYMATIC; KINETIC**

Lipase measurements are used to diagnose pancreatic disease and the associated monitoring of therapeutic effects.

The Lipase Color test is a colorimetric, kinetic assay that uses a clear substrate solution of 1, 2-diglyceride that is a "natural" substrate. The assay is highly sensitive and specific for pancreatic lipase, using colipase and deoxycholate as activators.<sup>(1)</sup> It is intended for the quantitative measurement of pancreatic lipase activity in serum or plasma.

## Features:

- Wide linear range\*
- Precise
- No significant interferences from triglyceride, glycerol, ascorbic acid, bilirubin, hemoglobin or lipemia

## Benefits:

- Reduces repeat testing
- Confidence in results
- Reduces the need for sample dilutions

## Performance Characteristics

### Precision

- Within-Run:  $\leq 2.4\%$
- Total Precision:  $\leq 4.4\%$

### Accuracy<sup>(a)</sup>

- Slope: 1.045
- Intercept: -0.7 U/L
- Correlation Coefficient: 0.9988

### Linearity

- 2-750 U/L

### No Significant Interferences Up to Levels Indicated

- Liposyn: 3000 mg/dL (1%)
- Triglyceride: 1000 mg/dL (11.3 mmol/L)
- Ascorbic Acid: 50 mg/dL (2840  $\mu\text{mol/L}$ )
- Unconjugated Bilirubin: 20 mg/dL (342  $\mu\text{mol/L}$ )
- Conjugated Bilirubin: 25 mg/dL (296.5  $\mu\text{mol/L}$ )
- Hemoglobin: 2000 mg/dL (310  $\mu\text{mol/L}$ )
- Glycerol: 250 mg/dL (27.15 mmol/L)

### Reference Range

- 21-67 U/L

(a) The performance of this method (y) on a Roche/Hitachi® 911 analyzer was compared with the performance of a similar method (x) on a Beckman CX analyzer.

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## Ordering information

	Configuration	Catalog Number
<b>Lipase Color</b>	5 x 30 mL (Reagent) 1 x 200 mL (Solvent) 1 x 60 mL (Activator) 2 x 3 mL (Calibrator)	905-B

(1) Imamura S., et al. "An Enzymatic Method Using 1, 2-Diglyceride for Pancreatic Lipase Test in Serum." *Clinical Chemistry* 1989; 35 (6): 1126.

\* Compared to the reference range

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