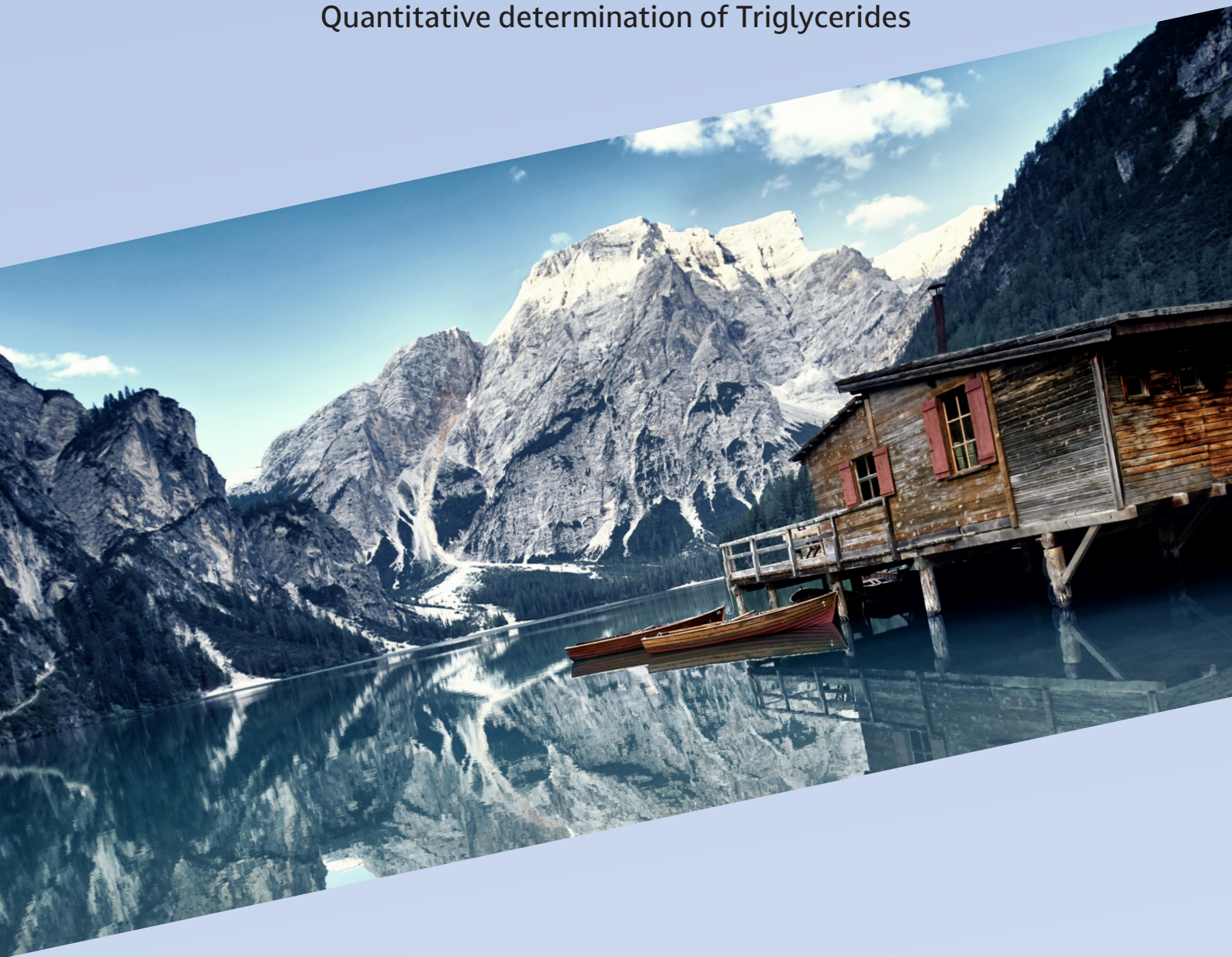


Triglycerides

Quantitative determination of Triglycerides



Featured products:

- Lipoprotein Lipase [LPL-311](#)
- Glycerol Kinase [GYK-311](#)
- L- α -Glycerophosphate Oxidase [G3O-321](#)
- Peroxidase [PEO-301](#)
- ATP [ATP-03C](#)

TRIGLYCERIDES FEATURED PRODUCTS

Principle



Lipoprotein Lipase from Pseudomonas sp.

Ref: [LPL-311](#)

Stability	Stable at -20°C for at least 12 months
Optimum pH	7.0 - 9.0
Optimum temperature	$45 - 50^{\circ}\text{C}$
pH Stability	pH 7.0 - 9.0 (25°C , 20hr)
Thermal stability	Below 55°C (pH 7.0, 15 min)

Glycerol Kinase from Microorganism

Ref: [GYK-311](#)

Michaelis constant	$9.4 \times 10^{-5} \text{ M}$ (Glycerol) $1.3 \times 10^{-5} \text{ M}$ (ATP) $2.1 \times 10^{-3} \text{ M}$ (dihydroxiacetone)
Stability	Stable at -20°C for at least 12 months
Optimum pH	10.0
Optimum temperature	70°C
pH Stability	pH 5.5 - 10.0 (25°C , 20hr)
Thermal stability	Below 65°C (pH 7.5, 30min)

L- α -Glycerophosphate Oxidase from Microorganism

Ref: [G3O-321](#)

Michaelis constant	1.3 $\times 10^{-3}$ M
Stability	Stable at -20°C for at least 12 months
Optimum pH	6.0-7.0
Optimum temperature	45 °C
pH Stability	pH 4.5-8.5 (25°C, 20hr)
Thermal stability	Below 45°C (pH 6.5, 15min)

Peroxidase from Horseradish

Ref: [PEO-301](#)

Stability	Stable at -20°C for at least 12 months
Optimum pH	6.0-7.0
Optimum temperature	45 °C
pH Stability	pH 5.0 - 10.0 (25 °C, 20hr)
Thermal stability	Below 50°C (pH 6.0, 10min)

ATP (Adenosine Triphosphate disodium salt trihydrate)

Ref: [ATP-03C](#)

Stability	At least one year at 2 - 8 °C
Microbiological limit	Complies
Storage	2 - 8 °C in a dry place protected from light

TRIGLYCERIDES

SORACHIM REAGENT RESULTS

Reagents

R	GOOD pH 6,3 p-Chlorophenol Lipoprotein lipase (LPL) Glycerol kinase (GYK) Glycerol-3-oxidasa (GPO) Peroxidase (PEO) 4 – Aminophenazone (4-AP) ATP
TRIGLYCERIDES CAL	Triglycerides primary STD.

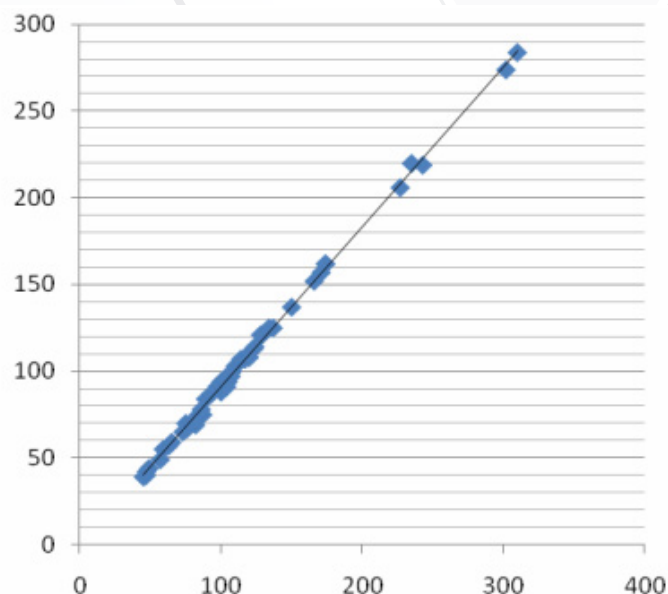
Linearity limit: 1200 mg/dL

Measuring range: From detection limit 0,00 to linearity limit 1200 mg/dL.

	Intra-assay (n=20)		Inter-assay (n=20)	
Avg. (mg/dL)	109	224	111	224
SD	0,64	1,01	3,74	7,91
CV (%)	0,58	0,45	3,38	3,52

Accuracy

Correlation coefficient (r)²: 0,99810.
Regression equation: $y = 0,9178x - 0,5426$



STABILITY DATA

Reagent stability at 37°C

CONTROL VALUES	Target (mg/dL)	Range (mg/dL)
Normal Control Serum (NC)	110	93-127
Pathological Control Serum (PC)	228	192-264
Calibrator (CAL)	126	100-151

RESULTS DAY 0 (mg/dL)	NC: 111 PC: 226	NC: 111 PC: 226	NC: 111 PC: 227
RESULTS DAY 16 (mg/dL)	NC: 113 PC: 233	NC: 112 PC: 233	NC: 117 PC: 235
RESULTS DAY 30 (mg/dL)	NC: 106 PC: 218	NC: 98 PC: 207	NC: 101 PC: 210

Real time stability at 2-8°C

CONTROL VALUES	Initial Evaluation		Final Evaluation	
	Target (mg/dL)	Range (mg/dL)	Target (mg/dL)	Range (mg/dL)
Normal Control Serum (NC)	112	94-130	110	93-127
Pathological Control Serum (PC)	225	189-261	228	192-264
Calibrator (CAL)	139	117-161	126	100-151

DAY 0 (mg/dL)	NC: 113 PC: 211 CAL: 143	NC: 116 PC: 221 CAL: 143	NC: 114 PC: 219 CAL: 139
24 months (mg/dL)	NC: 117 PC: 247 CAL: 135	NC: 107 PC: 210 CAL: 107	NC: 116 PC: 257 CAL: 139

Stable for 24 months

ADDITIONAL PRODUCTS



→ FAD- Na₂ [**FAD-11C**](#)

FAD- Na₂ - Flavine-adenine dinucleotide disodium salt

$C_{27}H_{31}N_9O_{15}P_2Na_2$ - Mw : 829.60

Orange powder - Purity : > 93 %

→ PIPES free acid [**PIP-153C**](#)

PIPES free acid - Piperazine-1,4-bis(2-ethanesulfonic acid)

$C_8H_{18}N_2O_6S_2$ - Mw : 302.37

White powder - Purity : > 90 %

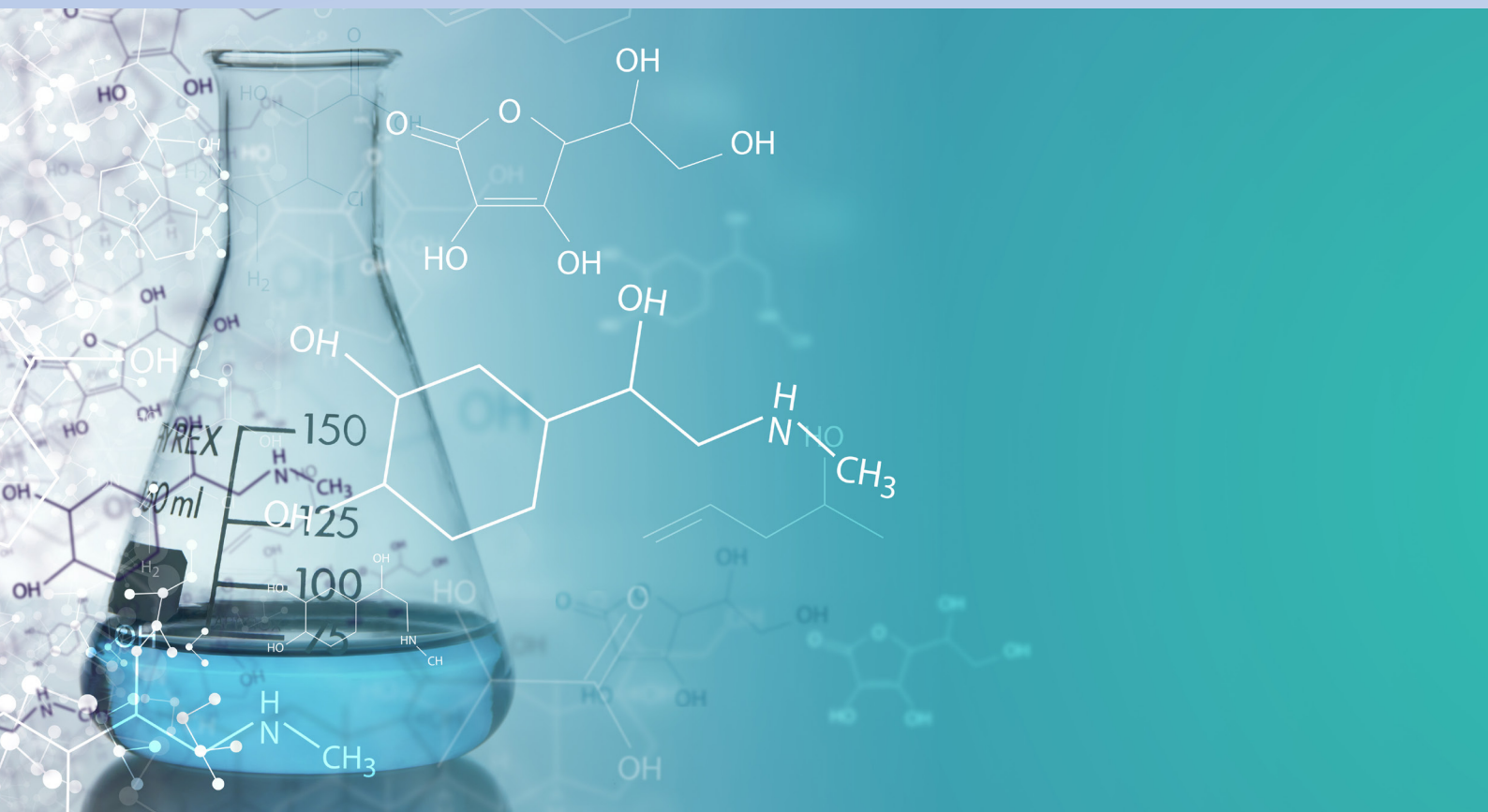
→ THESIT [**THE-01C**](#)

THESIT - Polyethylene glycol 400 dodecyl ether

$C_{30}H_{62}O_{10}$ - Mw : 600

White pasty substance





Your partner for Diagnostic Reagents



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