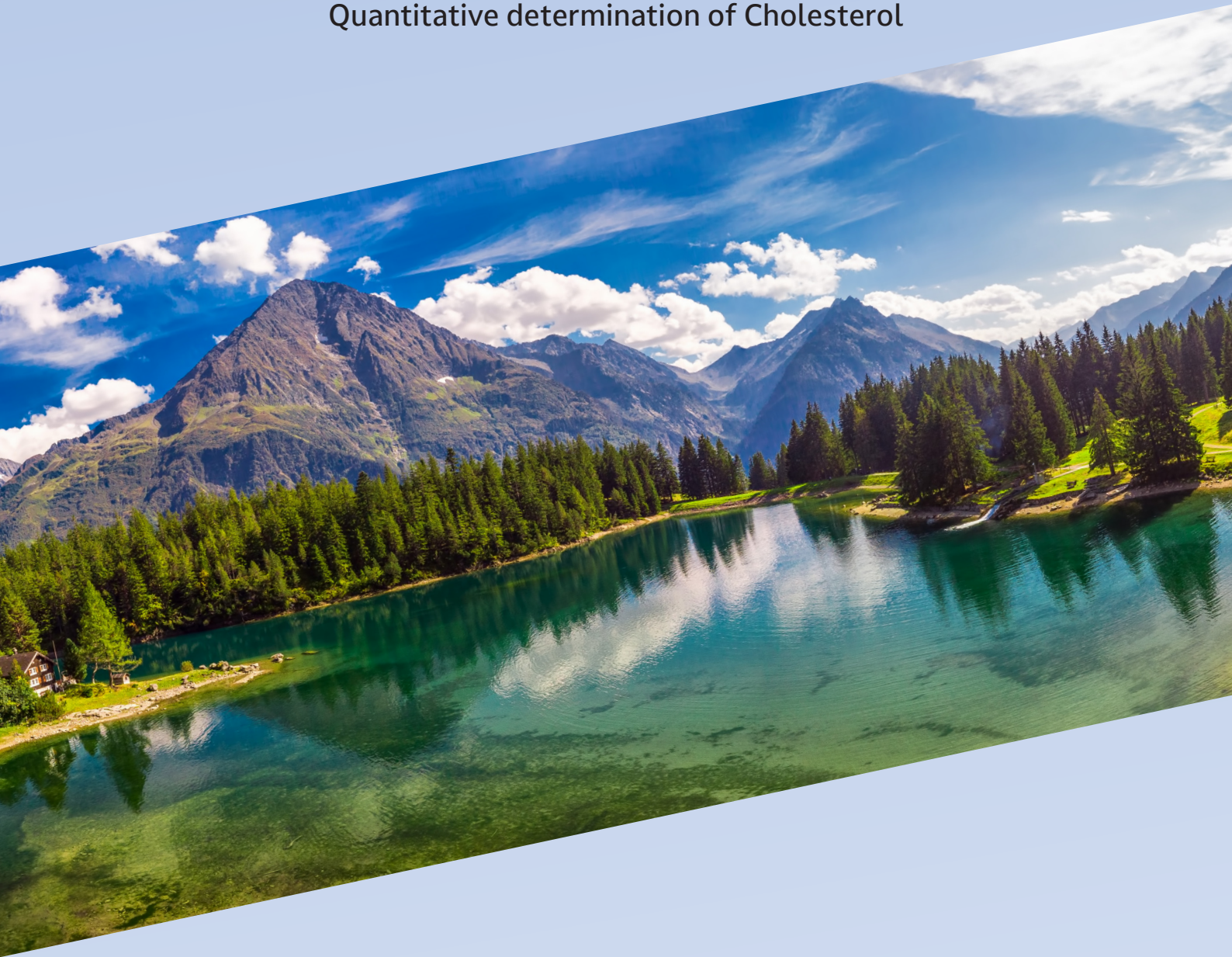


Cholesterol

Quantitative determination of Cholesterol

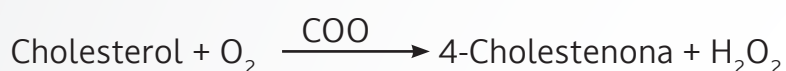


Featured products:

- Cholesterol Oxidase [COO-321](#) / [COO-122S](#)
- Cholesterol Esterase [COE-311](#)
- Peroxidase [PEO-301](#)
- Acid Cholic Sodium Salt [CHL-510C](#)

CHOLESTEROL FEATURED PRODUCTS

Principle



Cholesterol Oxidase from Microorganism

Ref: [COO-321](#)

Michaelis constant	2.1 x 10 ⁻⁵ M (Cholesterol)
Stability	Stable at -20°C for at least 12 months
Optimum pH	7.0 - 8.0
Optimum temperature	60 °C
pH Stability	pH 5.0 - 10.0 (25°C, 20hr)
Thermal stability	Below 55 °C (pH 7.0, 15 min)

Cholesterol Oxidase from Microorganism

Ref: [COO-122S](#)

Michaelis constant	4 x 10 ⁻⁶ M (Cholesterol)
Stability	Stable at -20°C for at least 12 months
Optimum pH	6.5 - 8.0
Optimum temperature	50 °C
pH Stability	pH 4.5 - 10.0 (25°C, 20hr)
Thermal stability	Below 60 °C (pH 7.0, 15 min)

Cholesterol Esterase from Pseudomonas sp.

Ref: [COE-311](#)

Michaelis constant	5.4×10 ⁻⁵ M (Linoleate), 6.6×10 ⁻⁵ M (Oleate) 3.7×10 ⁻⁵ M (Linolenate), 1.5×10 ⁻⁴ M (Palmitate) 1.2×10 ⁻⁴ M (Myristate), 2.3×10 ⁻⁵ M (Stearate)
Stability	Stable at -20°C for at least 12 months
Optimum pH	7.0 - 9.0
Optimum temperature	40 °C
pH Stability	5.0 - 9.0 (25 °C, 24hr)
Thermal stability	below 55°C (pH 7.5, 10min)

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	5.0 - 10.0 (25 °C, 20hr)
Thermal stability	below 50°C (pH 6.0, 10min)

Acid Cholic Sodium Salt

Ref: [CHL-510C](#)

Stability	At least 2 years at room temperature
Assay	> 98 %
Storage	Room temperature

CHOLESTEROL SORACHIM REAGENT RESULTS

Reagents

R	PIPES pH 6,9 Phenol Cholesterol esterase (COE) Cholesterol oxidase (COO) Peroxidase (PEO) 4 – Aminophenazone (4-AP)
CHOLESTEROL CAL	Aqueous Primary Standard

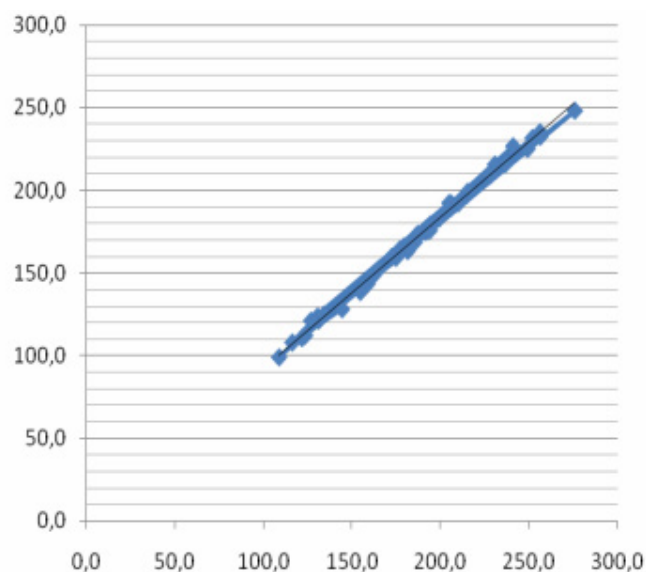
Linearity limit: 1000 mg/dL

Measuring range: From detection limit 0,00 to linearity limit 1000 mg/dL.

	Intra-assay (n=20)		Inter-assay (n=20)	
Mean (mg/dL)	99	201	96	197
SD	0,83	1,41	1,75	6,41
CV (%)	0,84	0,70	1,82	3,26

Accuracy

Correlation coefficient (r)²: 0,99549.
Regression equation: $y = 0,911x + 2,624$.



STABILITY DATA

Reagent stability at 37°C

CONTROL VALUES	Target (mg/dL)	Range
Normal Control Serum (NC)	96	82-110
Pathological Control Serum (PC)	197	168-226
Calibrator (CAL)	174	139-209

RESULTS DAY 0 (mg/dL)	NC: 96 PC: 197	NC: 96 PC: 197	NC: 96 PC: 196
RESULTS DAY 16 (mg/dL)	NC: 95 PC: 197	NC: 95 PC: 198	NC: 95 PC: 198
RESULTS DAY 30 (mg/dL)	NC: 101 PC: 193	NC: 104 PC: 195	NC: 101 PC: 201

Real time stability at 2-8°C

CONTROL VALUES	Initial Evaluation		Final Evaluation	
	Target (mg/dL)	Range	Target (mg/dL)	Range
Normal Control Serum (NC)	99	84-113	96	81-110
Pathological Control Serum (PC)	201	171-231	197	168-226
Calibrator (CAL)	170	145-196	174	139-208

DAY 0 (mg/dL)	NC: 98 PC: 205 CAL: 170	NC: 101 PC: 164 CAL: 199	NC: 105 PC: 206 CAL: 169
24 months (mg/dL)	NC: 105 PC: 201 CAL: 177	NC: 93 PC: 193 CAL: 178	NC: 91 PC: 185 CAL: 161

Stable for 24 months

ADDITIONAL PRODUCTS



→ 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

→ Genapol X-080 [GEN-080](#)

Genapol X-080 - Polyethylene glycol monoalkyl ether

$C_{29}H_{40}O_9$ - Mw : 552

Clear viscous liquid

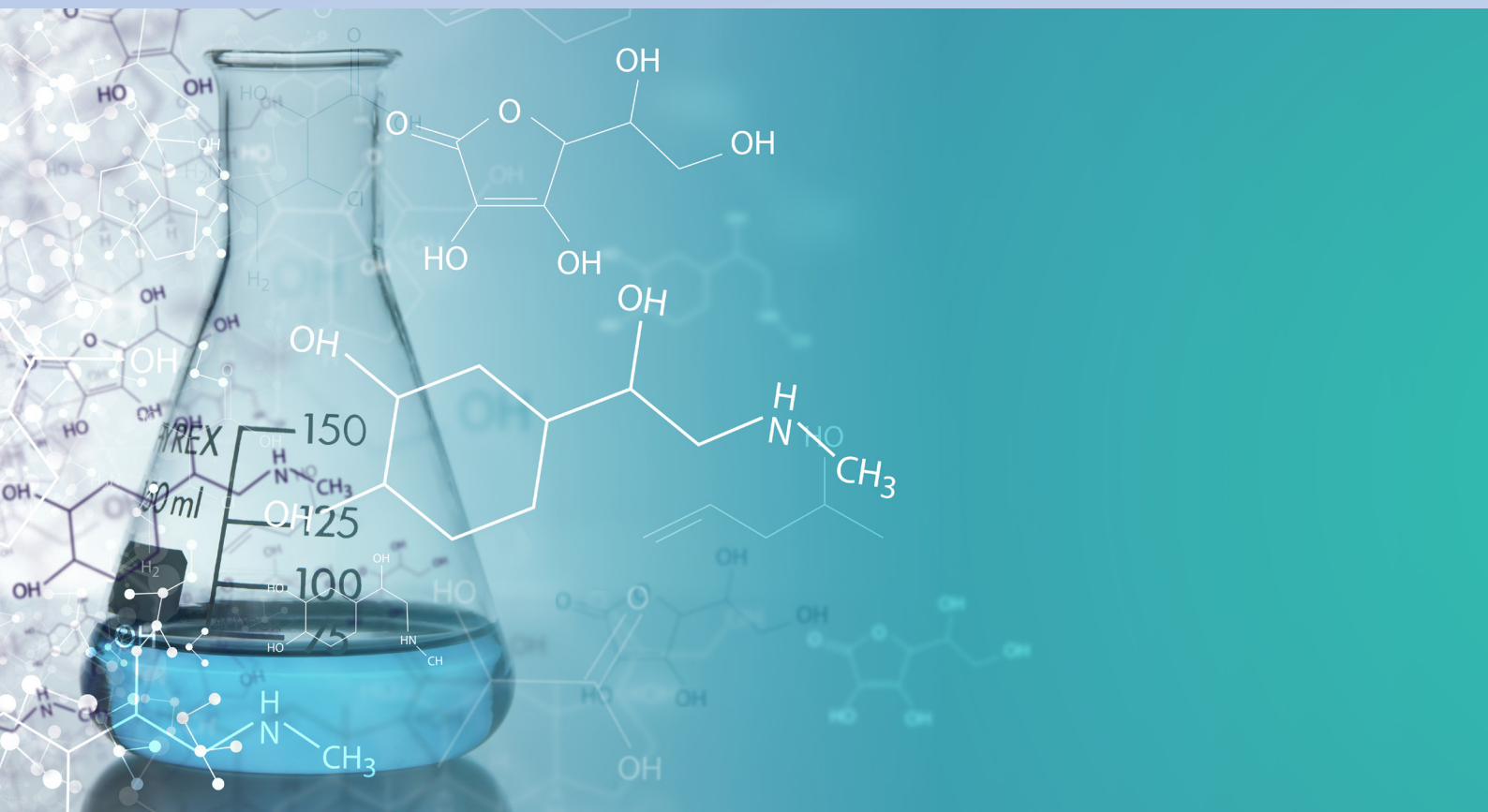
→ Sodium azide [SAZ-167C](#)

Sodium azide

NaN_3 - Mw : 65.02

White powder - Purity : > 99 %





Your partner for Diagnostic Reagents



SORACHIM SA, Chemin de Pré-Fleuri 6, 1006 Lausanne, Switzerland
Tel +41 21 64 64 640, Fax +41 21 54 41 383
<http://www.sorachim.com> mail: contact@sorachim.com