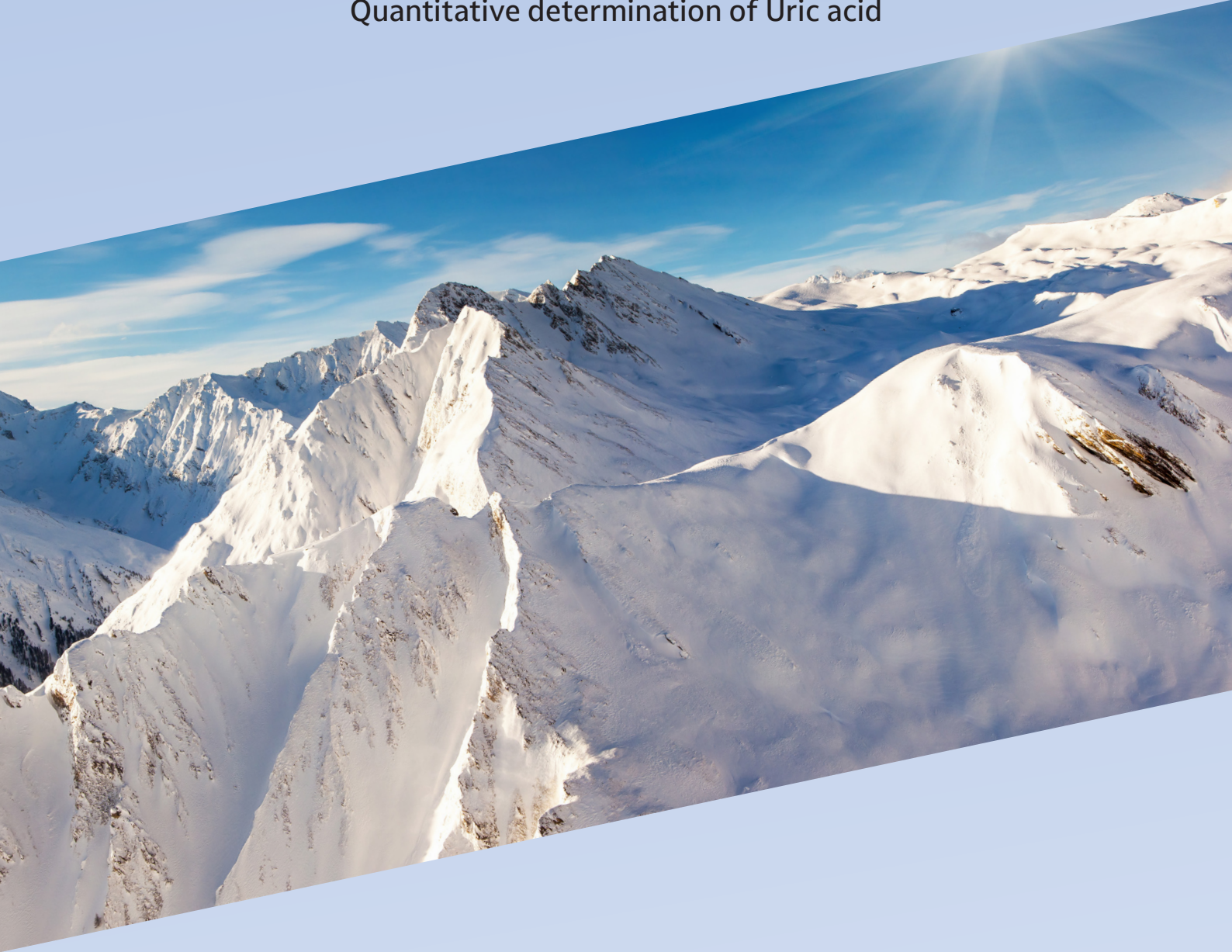


Uric Acid

Quantitative determination of Uric acid

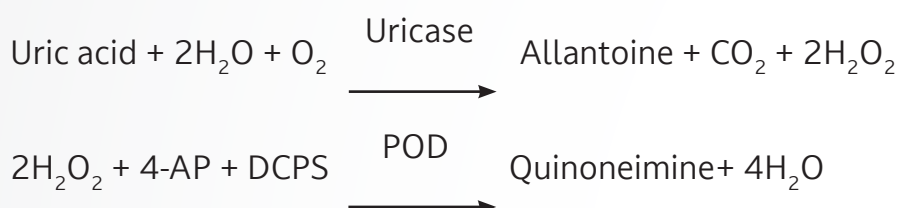


Featured products:

- Uricase [UAO-201](#)
- Uricase [UAO-211](#)
- Peroxidase [PEO-302](#)

URIC ACID FEATURED PRODUCTS

Principle



Uricase from Candida sp.

Ref: [UAO-201](#)

Michaelis constant	2.5×10^{-5} M (Uric acid)
Stability	Stable at -20°C for at least 12 months
Optimum pH	8.5
Optimum temperature	40°C
pH Stability	pH 7.0 - 11.0 (25°C , 20hr)
Thermal stability	Below 50°C , (pH 8.5, 10min)

Uricase from Bacillus sp.

Ref: [UAO-211](#)

Michaelis constant	1.36×10 ⁻⁵ M (Uric acid)
Stability	Stable at -20°C for at least 12 months
Optimum pH	8.5
Optimum temperature	45°C
pH Stability	pH 6.0 - 9.5 (25°C, 20hr)
Thermal stability	below 60°C (pH 8.0, 10min)

Peroxidase from Horseradish

Ref: [PEO-302](#)

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)

URIC ACID

SORACHIM REAGENT RESULTS

Reagents

R1 (Buffer)	Phosphate pH 7,4 2-4 Dichlorophenol sulfonate (DCPS)
R2 (Enzymes)	Uricase Peroxidase (POD) Ascorbate oxidase 4 – Aminophenazone (4-AP)
URIC ACID CAL	Uric acid aqueous primary standard

Linearity limit: 40 mg/dL

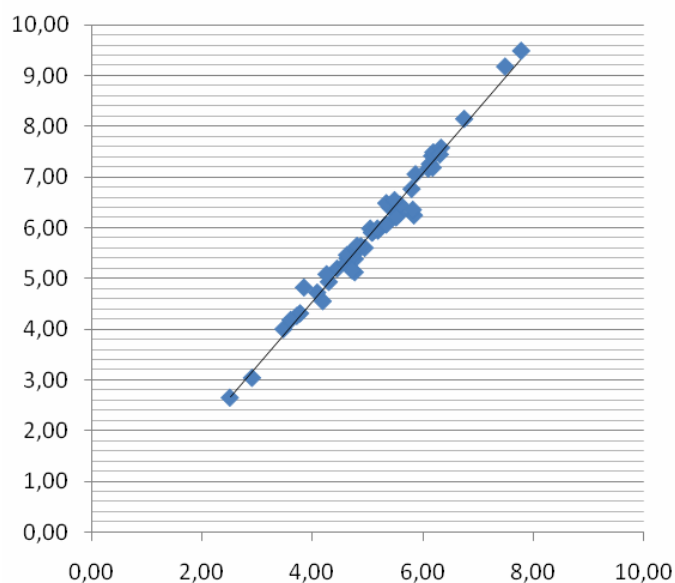
Measuring range: From detection limit of 0,00 mg/dL to linearity limit of 40 mg/dL.

	Intra-assay (n=20)		Inter-assay (n=20)	
Mean (mg/dL)	4,74	10,55	4,73	10,50
SD	0,02	0,03	0,13	0,29
CV (%)	0,50	0,30	2,67	2,77

Accuracy

Correlation coefficient (r)²: 0,97137.

Regression equation: $y = 1,162x + 0,14156$.



STABILITY DATA

Normal Control Serum (NC): Target value 4,91 mg/dL, Range 4,18 - 5,64 mg/dL

Pathological Control Serum (PC): Target value 11,00 mg/dL, Range 9,37 - 12,60 mg/dL

Reagent stability at 37°C

RESULTS DAY 0 (mg/dL)	NC: 4,68 PC: 10,36	NC: 4,65 PC: 10,42	NC: 4,69 PC: 10,59
RESULTS DAY 14 (mg/dL)	NC: 4,92 PC: 10,85	NC: 5,00 PC: 11,01	NC: 4,96 PC: 10,97
RESULTS DAY 30 (mg/dL)	NC: 4,88 PC: 10,31	NC: 4,88 PC: 10,84	NC: 4,90 PC: 10,88

Working reagent stability at 2-8°C

DAY 0 (mg/dL)	NC: 4,79 PC: 10,60	NC: 4,65 PC: 10,59	NC: 4,76 PC: 10,67
DAY 14 (mg/dL)	NC: 4,77 PC: 10,12	NC: 4,84 PC: 10,02	NC: 4,71 PC: 10,00
DAY 21 (mg/dL)	NC: 4,54 PC: 10,86	NC: 5,02 PC: 10,79	NC: 5,03 PC: 10,20

Working reagent stability at room temperature

DAY 0 (mg/dL)	NC: 4,79 PC: 10,60	NC: 4,65 PC: 10,59	NC: 4,76 PC: 10,67
DAY 10 (mg/dL)	NC: 4,55 PC: 10,36	NC: 4,46 PC: 11,09	NC: 4,81 PC: 10,98

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)	4,70	4,00 - 5,40	4,74	4,04 - 5,44
Pathological Control Serum (PC)	10,60	9,00 - 12,00	11,10	9,50 - 12,70
Calibrator (CAL)	5,25	4,18 - 6,30	5,70	4,56 - 6,84

DAY 0 (mg/dL)	NC: 4,70 PC: 10,60 CAL: 5,25	NC: 4,70 PC: 4,60 CAL: 5,25	NC: 4,80 PC: 10,60 CAL: 5,75
24 months (mg/dL)	NC: 4,28 PC: 9,84 CAL: 5,70	NC: 4,74 PC: 11,06 CAL: 5,94	NC: 4,23 PC: 9,82 CAL: 5,36

Stable for 24 months



ADDITIONAL PRODUCTS



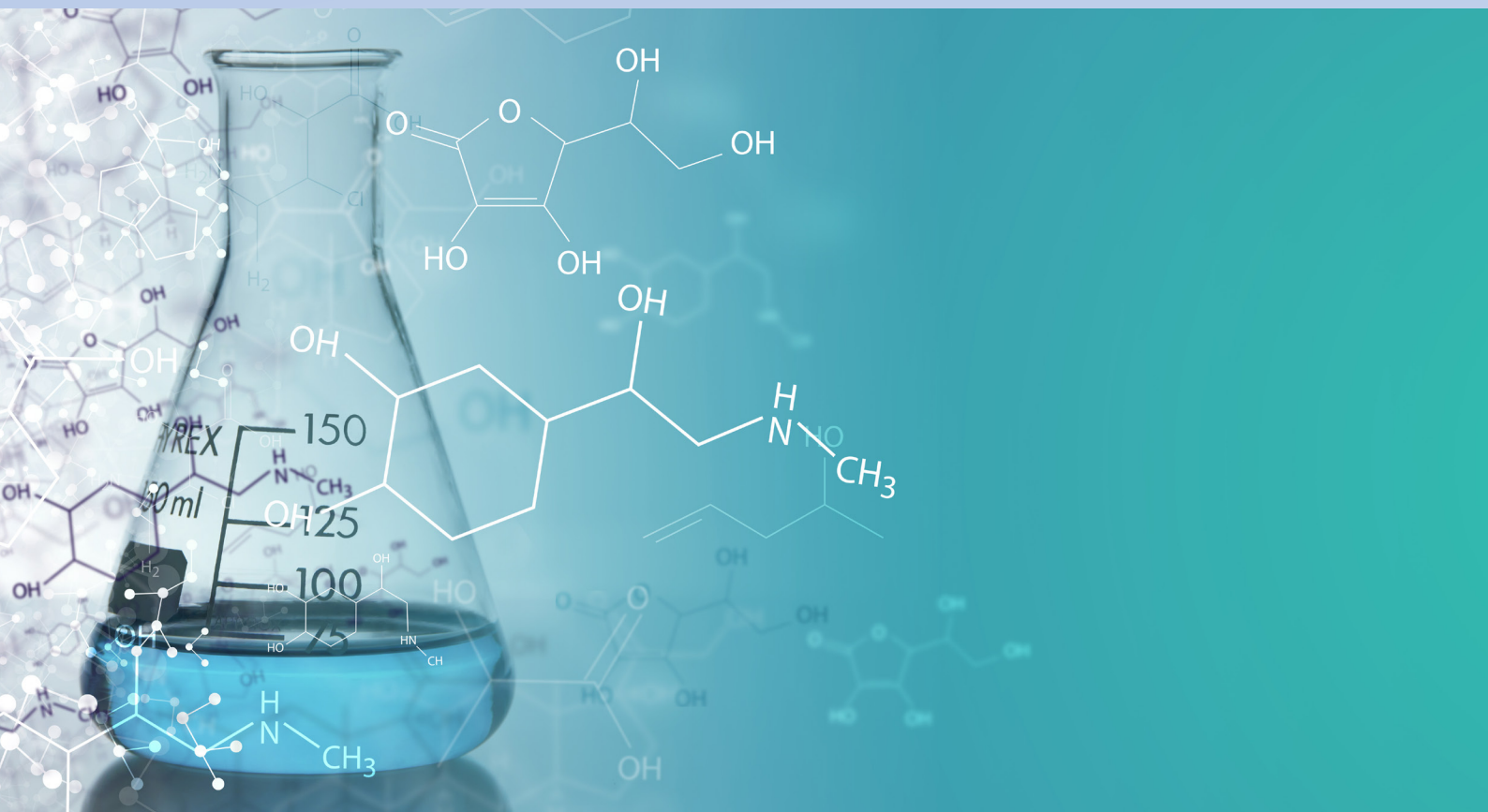
→ Sodium azide [SAZ-167C](#)

Sodium azide

NaN_3 - Mw : 65.02

White powder - Purity : > 99 %





Your partner for Diagnostic Reagents



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