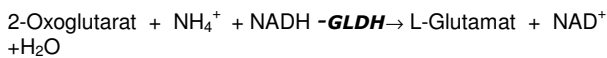


Ammonia (GLDH-UV -Test)

Cat.No	Package Size
106 016	6 x 10 ml R1a / 6 ml R1b / 2 x 8 ml R2,/ Standard
106 000	5 x 20 ml R1a / 10 ml R1b / 25 ml R2,/ Standard
106 001	2 x 100 ml R1a / 2 x 10 ml R1b / 2 x 25 ml R2/ Standard

PRINCIPLE

"GLDH-UV"/ enzymatic UV-Test :



GLDH = Glutamatdehydrogenase

REAGENTS

Composition (concentrations in the test)

R1a:	TRIS buffer	pH 8,0	50 mmol/l
	GLDH		> 6,0 kU/l
	LDH		> 2 kU/l
	EDTA		5,3 mmol/l
R1b:	NADH		0,18 mmol/l
R2:	2-Oxoglutarate		18 mmol/l
Standard solution:			200 µg/dl (118 µmol/l)

The sealed reagents are stable up to the indicated expiry date if stored at 2°- 8°C.

Reaction mixture

R2 and Standardsolution are ready for use

Reagent R1 :

Mix 10 parts of R1a with 1 part of R1b

*Stability of reaction mixture: + 2° to + 8°C: 4 days
+18° to +25°C: 2 days*

Precautions

The reagents contain 0.95 % sodium azide as preservative. Do not swallow or ingest. Keep away from skin and mucous membranes!

SAMPLE MATERIAL

Serum, Plasma (no ammonia heparinate!)

REFERENCE VALUES

Adults:	Women:	≤ 82 µg/dl (≤ 48 µmol/l)
	Men:	≤ 94 µg/dl (≤ 55 µmol/l)

ASSAY PROCEDURE

Wavelength : 334/340/365 nm
Light path: 1 cm
Temperature : 37° C
Measure decreasing absorbance against Reagent Blank (RBL)

Pipette into cuvettes

	Sample	RBL
Sample	200 µl	-
Aqua dist.	-	200 µl
Reaction mixture R1	1000 µl	1000 µl
Mix and incubate for 3 min, then read A ₁ against reagent blank (RBL)		
Reagent R2	200 µl	200 µl
Mix, incubate 5 min , then read A ₂		

Determine $\Delta A = (A_1 - A_2)$ Sample and Standard

CALCULATION

with standard :

$$\text{Ammonia } [\mu\text{g/dl}] = \frac{\Delta A \text{ sample}}{\Delta A \text{ standard}} \times \text{Conc. Standard } [\mu\text{g/dl}]$$

Recalculation

Ammonia [µg/dl] x 0,588 = Ammonia [µmol/l]

QUALITY CONTROL

We recommend Greiner special controls with proven values for the Greiner Method .