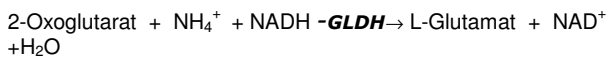


# Ammonia (GLDH-UV -Test)

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)

<b>R1a:</b>	TRIS buffer	pH 8,0	50 mmol/l
	GLDH		> 6,0 kU/l
	LDH		> 2 kU/l
	EDTA		5,3 mmol/l
<b>R1b:</b>	NADH		0,18 mmol/l
<b>R2:</b>	2-Oxoglutarate		18 mmol/l
<b>Standard solution:</b>			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

<b>Adults:</b>	<b>Women:</b>	≤ 82 µg/dl (≤ 48 µmol/l)
	<b>Men:</b>	≤ 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
<b>Sample</b>	200 µl	-
<b>Aqua dist.</b>	-	200 µl
<b>Reaction mixture R1</b>	1000 µl	1000 µl
Mix and incubate for 3 min, then read A <sub>1</sub> against reagent blank (RBL)		
<b>Reagent R2</b>	200 µl	200 µl
Mix, incubate 5 min , then read A <sub>2</sub>		

**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 .