

LAB

# Ammonia Ultra

Liquid Mono-reagent

**SENTINEL**  
D I A G N O S T I C S

# Ammonia Ultra

Mono-reagent method for the enzymatic determination of Ammonia in plasma

## Features and Advantages

- Less manual steps, liquid ready to use mono-reagent
- Easily adaptable to most common automated analyzers
- Calibrator included in the kit
- One point calibration, with linearity range from 25 to 1700 µg/dL
- New patented analytic system allows for the continuous regeneration of NADH involved in the reaction, whereas the presence of LDH in the reagent means that any interference from endogenous pyruvate is eliminated
- Filled in Universal Vials suitable for AU series, ADVIA series, Hitachi Modular, Hitachi 917, Dirui series
- Excellent correlation with Arkray Blood Ammonia Checker

## Method

Ammonia in presence of glutamate dehydrogenase (GLDH) combines with  $\alpha$ -ketoglutarate and NADH to yield glutamate and NAD<sup>+</sup>.

The decrease in absorbance (NADH → NAD<sup>+</sup>) at 340 nm is proportional to the ammonia concentration in the examined plasma.

The reagent contains lactate dehydrogenase (LDH) in excess, to rapidly reduce endogenous pyruvate so as not to interfering with the assay system.

## Measurement Precision

Intra-Assay Precision		
Levels	Average (µg/dL)	CV%
L1	62.30	4.94
L2	262.90	4.04
L3	366.75	2.03
Inter-Assay Precision		
Levels	Average (µg/dL)	CV%
L1	57.20	8.35
L2	269.60	1.53
L3	368.63	2.04

Ref.	Description	Presentation
17660	Ammonia Ultra	R1: 3x20; STD: 1x5
16635	Ammonia Controls (3 levels)	3x(1x5)



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