

# Urease

## Catalogue No. 70-6734-01

### ORIGIN

Jack Bean

### SPECIFICATIONS

Appearance . . . . . Clear, slightly yellow solution, essentially free from particulate matter  
 pH . . . . . 7.10 ± 0.20  
 Urease Activity . . . . . 8000 ± 1000 IU/ml  
 Specific Activity . . . . . Approximately 500.0 IU/mg protein  
 NAC Concentration . . . . . ≥ 14.00 mM  
 Microbial Counts . . . . . ≤ 150 CFU/ml  
 Conductivity . . . . . ≤ 49.0  
 Ammonia Content . . . . . ≤ 0.0008 μmoles of ammonia per unit of Urease  
 Stress Stability . . . . . ≥ 90.0% of initial assay value after 3 days at 37°C  
 Storage . . . . . Store at -20°C to 8°C. Protect from light

### ASSAY PRINCIPLE

Urease catalyses the following reaction:



The decrease in absorbance as NADH is converted to NAD can be measured spectrophotometrically at 340nm.

### UNIT DEFINITION

One unit of activity is defined as the amount of enzyme required to convert one micromole of urea per minute at 37°C under standard assay conditions.

*(See Analytical Method for full details)*



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