
Catalog	Unit
TBP0097-100MG	100 mg
TBP0097-500MG	500 mg

Product Details

Form: Crystalline powder

Molecular Weight: 833.4

Solubility: Distilled water or dilute buffer

Stability: Store at -20° C (-4° F)

Purity: 98+%

Applications

NADPH is used in the determination of leucine aminopeptidase, creatine, ammonia and urea.

Reagents

- 0.1M Triethanolamine buffer/substrate, pH 7.6: 1.86 g TEA&HCl, 210 mg glycerate-3-P, 125 mg MgSO₄&7H₂O and 50 mg EDTA with 80 ml distilled water. Adjust pH to 7.6 with 1M NaOH-Na₂ and adjust volume to 100 ml with distilled water.
- 3 M Ammoniumchloride: 16.5 g NH₄Cl in distilled water, adjust volume to 100 ml.
- 0.2 M a-Ketoglutarate: 45 mg a-Ketoglutarate-Na₂&2H₂O in 1 ml distilled water.
- Glutamate dehydrogenase, from bovine liver (20 mg protein/ml): 120 U/mg.

Procedure

- Dissolve 25 mg NADP in 25 ml distilled water in a volumetric flask.
- Set spectrophotometer (equipped with strip chart recorder and temperature control) at 340 nm and 25°C.
- Into a cuvette, pipette the following:

Buffer	(1)	2.50 ml
NH ₄ Cl	(2)	0.15 ml
a-KG	(3)	0.10 ml

Mix and read the absorbance A1.
- Add 0.10 ml of the sample. Mix and read absorbance A2.
- Start reaction by adding 0.01 ml GLDH. Mix and read absorbance A3.
- Add an additional 0.01 ml GLDH. Mix and read absorbance A4 (absorbance due to enzyme).

For research use only