



ALPHA-ASPARTYL DIPEPTIDASE E from *E. coli* (Lot 40305a)

Recombinant

E-DIPEP
(EC 3.4.13.21)

10/11

PROPERTIES

1. ELECTROPHORETIC PURITY

- Single band on SDS-gel electrophoresis (MW ~ 26,734)
- Single major band on isoelectric focusing (pI ~ 6.3)

2. SPECIFIC ACTIVITY

106 U/mg protein at pH 8.0 and 25°C.

One Unit of dipeptidase is defined as the amount of enzyme required to produce one μ mole of pNA from H-Asp-pNA measured at 410 nm under the following assay conditions:

Tris/HCl buffer, pH 8.0	50 mM
H-Asp-pNA	5.0 mM
BSA	0.25 mg/mL

3. OTHER ACTIVITIES (as a percentage of dipeptidase activity)

Enzyme measured	Substrate	Activity, %
Dipeptidase	H-Asp-pNA	100
NADH oxidase	NADH	< 0.0001

4. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 8.0 and up to 25°C.

5. STORAGE AND USE CONDITIONS/RECOMMENDATIONS:

The enzyme is supplied as an ammonium sulphate suspension and should be stored at 4°C. For assay, this enzyme should be diluted in 100 mM Tris/HCl buffer, pH 8.0 containing 0.5 mg/mL BSA. **Swirl to mix the enzyme suspension immediately prior to use.**