



L-GLUTAMIC-OXALOACETIC TRANSAMINASE from *E. coli* (Lot 110704d)

Recombinant

E-GOTEC

02/19

(EC 2.6.1.1) L-aspartate:2-oxoglutarate aminotransferase

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 45,737)
- One major bands on isoelectric focusing (pI ~ 6.1)

2. SPECIFIC ACTIVITY:

180 U/mg protein at pH 8.5 and 25°C.

One Unit of L-glutamic-oxaloacetic transaminase (GOT) is defined as the amount of enzyme required to produce one μ mole of NAD⁺ from NADH under the following assay conditions:

Tris.HCl buffer, pH 8.5	135 mM
L-Aspartic acid	30 mM
α -Ketoglutaric acid	28 mM
NADH	0.24 mM
L-Malate dehydrogenase	40 U/mL

3. OTHER ACTIVITIES (as a percentage of L-GOT activity):

Enzyme Measured	Substrate	Activity, %
L-Glutamic-oxaloacetic transaminase	L-aspartic acid	100
L-Lactate dehydrogenase	pyruvic acid	< 0.0001

4. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 8.5 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 3 μ M pyridoxal phosphate containing 1 mg/mL BSA. **Swirl to mix the enzyme suspension immediately prior to use.**