



GALACTOSE DEHYDROGENASE plus MUTAROTASE (Lot 130402c)

Recombinant

E-GALMUT

08/17

(EC 1.1.1.48) D-galactose:NAD⁺ I-oxidoreductase

(EC 5.1.3.3) Aldose I-epimerase

PROPERTIES

1. ELECTROPHORETIC PURITY:

Each protein appears as a single band on SDS-gel electrophoresis and on isoelectric focusing (see sheets for individual enzymes for details).

2. SPECIFIC ACTIVITY:

Galactose dehydrogenase (GalDH); > 200 U/mL at pH 8.6 and 25°C.

Mutarotase; 4.1 mg/mL

One Unit of galactose dehydrogenase (GalDH) is defined as the amount of enzyme required to produce one μ mole of NADH from NAD⁺ per minute.

3. CONTAMINATING ACTIVITIES (as a percentage of major activities):

Refer to the individual data sheets for galactose dehydrogenase and mutarotase.

4. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 8.6 and 20°C – 40°C.

5. STORAGE AND USE CONDITIONS/RECOMMENDATIONS:

This mixture of enzymes is supplied as an ammonium sulphate suspension and should be stored at 4°C. For use in the measurement of lactose and D-galactose, refer to the **Lactose/D-Galactose Assay Kit booklet (Megazyme cat. no. K-LACGAR)** for details of required concentrations, aliquots and incubation times. **Swirl to mix the enzyme suspension immediately prior to use.**