GALACTOSE DEHYDROGENASE plus MUTAROTASE (Lot 130402c)

**Recombinant**

E-GALMUT 08/17

(EC 1.1.1.48) D-galactose:NAD+ 1-oxidoreductase
(EC 5.1.3.3) Aldose 1-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; 4.1mg/mL

   **One Unit** of galactose dehydrogenase (GalDH) is defined as the amount of enzyme required to produce one μmole 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.**