



## GALACTOSE DEHYDROGENASE plus MUTAROTASE (Lot 130402)

### **Recombinant**

### **E-GALMUT**

05/13

(EC 1.1.1.48) D-galactose:NAD<sup>+</sup> 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  $\mu$ mole of NADH from NAD<sup>+</sup> 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.**