

## glucose/galactose 1-dehydrogenase

Cat. No. EXWM-0277

Lot. No. (See product label)

### Introduction

**Description** A zinc protein. The enzyme from the archaeon *Picrophilus torridus* is involved in glucose and galactose catabolism via the nonphosphorylative variant of the Entner-Doudoroff pathway. It shows 20-fold higher activity with NADP<sup>+</sup> compared to NAD<sup>+</sup>. The oxidation of D-glucose and D-galactose is catalysed at a comparable rate (cf. EC 1.1.1.119, glucose 1-dehydrogenase (NADP<sup>+</sup>) and EC 1.1.1.120, galactose 1-dehydrogenase (NADP<sup>+</sup>)).

**Synonyms** GdhA; dual-specific glucose/galactose dehydrogenase; glucose (galactose) dehydrogenase; glucose/galactose dehydrogenase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.360

**Reaction** (1) D-glucopyranose + NADP<sup>+</sup> = D-glucono-1,5-lactone + NADPH + H<sup>+</sup>; (2) D-galactopyranose + NADP<sup>+</sup> = D-galactono-1,5-lactone + NADPH + H<sup>+</sup>

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.