

## uronate dehydrogenase

Cat. No. EXWM-0108

Lot. No. (See product label)

### Introduction

**Description** Requires Mg<sup>2+</sup>. The enzyme, characterized from the bacterium *Agrobacterium fabrum*, participates in oxidative degradation pathways for galacturonate and glucuronate. The enzyme can only accept the  $\beta$  anomeric form of the substrate. The 1,5-lactone product is rather stable at cytosolic pH and does not hydrolyse spontaneously at a substantial rate.

**Synonyms** uronate:NAD-oxidoreductase; uronic acid dehydrogenase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.203

**CAS No.** 37250-98-9

**Reaction** (1)  $\beta$ -D-galacturonate + NAD<sup>+</sup> = D-galactaro-1,5-lactone + NADH + H<sup>+</sup>; (2)  $\beta$ -D-glucuronate + NAD<sup>+</sup> = D-glucaro-1,5-lactone + NADH + 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.