

Uronate dehydrogenase from Agrobacterium tumefaciens, Recombinant

Cat. No. NATE-1575

Lot. No. (See product label)

Introduction

Description In enzymology, an uronate dehydrogenase (EC 1.1.1.203) is an enzyme that

catalyzes the chemical reaction: D-galacturonate + NAD+ + H2O \rightarrow D-galactarate + NADH + H+. The 3 substrates of this enzyme are D-galacturonate, NAD+, and H2O, whereas its 3 products are D-galactarate, NADH, and H+. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH

group of donor with NAD+ or NADP+ as acceptor.

Synonyms uronate:NAD+ 1-oxidoreductase; uronate: NAD-oxidoreductase; uronic acid

dehydrogenase; EC 1.1.1.203

Product Information

Species Agrobacterium tumefaciens

Source E. coli

Form 3.2 M ammonium sulphate

EC Number EC 1.1.1.203

CAS No. 37250-98-9

Molecular Weight 31.14 kDa

Purity >95% as judged by SDS-PAGE

Activity 3000 U/ml

Optimum pH 8

Optimum temperature 37 °C

Unit Definition One Unit of uronate dehydrogenase was defined as the amount enzyme required to

produce 1 µmole of NADH from NAD+, in a reaction mixture containing 200mM TrisHCl buffer, pH 8.0, 10 mM D-glucuronic acid and 2.1 mM NAD+, at 25°C.

Storage and Shipping Information

Storage Uronate dehydrogenase should be stored at 4 °C or and will remain stable up to 3

years if stored as specified.