

Active Native Swine Isocitrate Dehydrogenase

Cat. No. ICDH-209S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified Native Porcine Heart Isocitrate Dehydrogenase. CAS Number: 9028-48-2; E.C. Number: 1.1.1.42
Species	Pig
Source	Porcine Heart
Description	Isocitrate dehydrogenase is an enzyme that participates in the citric acid cycle. It catalyzes the third step of the cycle: the oxidative decarboxylation of isocitrate, producing alpha-ketoglutarate (a-ketoglutarate) and CO ₂ while converting NAD ⁺ to NADH. This is a two-step process which involves oxidation of isocitrate (a secondary alcohol) to oxalosuccinate (a ketone), followed by the decarboxylation of the carboxyl group beta to the ketone, forming alpha-ketoglutarate.
Form	Ammonium Sulfate Suspension
Bio-activity	Typically >1.0 U/mg protein
Unit Definition	One unit will catalyze the oxidation of one micromole of isocitrate and the reduction of one micromole of NADP per minute at pH 7.4 and 37C.
Storage	Store at 2-8 °C.
Concentration	>10 mg/mL

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