Creative Enzymes
Diagnostic Enzymes

High Purity Formate Dehydrogenase

Product Information

Cat#	DIA-546
Source	Candida boidinii
Description	High purity recombinant formate dehydrogenase from Candida boidinii for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Suspension
CAS No.	9028-85-7
Activity	~ 2 U/mg (25 °C, pH 7.6 on formic acid)
Unit Definition	One unit of formate dehydrogenase is defined as the amount of enzyme required to convert one µmole of formic acid to NADH + CO2 per minute in the presence of NAD+ in potassium phosphate buffer (41 mM), pH 7.6 at 25 °C.
Storage	2–8 °C
Synonyms	Formate dehydrogenase; formate:NAD+ oxidoreductase
Enzyme Commission Number	EC 1.2.1.2 (→ EC 1.17.1.9)
Stability	> 1 year under recommended storage conditions
Optimum pH	7.6
Optimum temperature	37 °C
Buffer	3.2 M ammonium sulphate
Applications	Applications for the measurement of formate in the food, fermentation, wine, beverage and dairy industries.
Molecular Weight	41331 Da
Concentration	~ 75 U/mL

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Specificity	Catalyses the reaction: Formate + NAD^+ = CO_{2+} + NADH.

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