

Formate Dehydrogenase from *Candida boidinii*

Product Information

Cat#	DIA-546
Source	<i>Candida boidinii</i>
Description	High purity recombinant formate dehydrogenase (<i>Candida boidinii</i>) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Suspension
ECNumber	1.2.1.2 (transferred to EC 1.17.1.9)
Activity	~ 2 U/mg (25 °C, pH 7.6 on formic acid)
CAS No.	9028-85-7
Optimum pH	7.6
Optimum temperature	37 °C
Stability	> 1 year under recommended storage conditions
Unit Definition	One unit of formate dehydrogenase is defined as the amount of enzyme required to convert one µmole of formic acid to NADH and CO ₂ 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:NAD ⁺ oxidoreductase
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
Specificity	Catalyses the reaction: Formate + NAD ⁺ = CO ₂₊ + NADH.