

Formate Dehydrogenase from *Candida boidinii*

Product Information

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| 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 μ mole 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. |