

Glucose-6-phosphate Dehydrogenase from Microorganism

Product Information

Cat#	DIA-428
Source	Microorganism
Form	Freeze dried powder
Activity	≥ 420.0 U/mg
Isoelectric point	4.6
Storage	-25 °C to -15 °C
Enzyme Commission Number	EC 1.1.1.49
Purity	≥ 90.0% (SDS-PAGE)
pH Stability	pH 5.5–10.0 (25 °C, 16 h)
Michaelis Constant	3.2 × 10 ⁻⁴ M (NAD ⁺) 2.6 × 10 ⁻⁴ M (G-6-P)
Optimum pH	8.0
Optimum temperature	45 °C
Thermal stability	Below 40 °C (pH 7.5, 30 min)
Inhibitors	SDS, Zn ²⁺ , Fe ³⁺
Applications	For enzymatic determination of glucose or ATP when coupled with hexokinase.
Appearance	White amorphous lyophilizate
Molecular Weight	57 kDa (SDS-PAGE)
Package	2/100/500/1000 KU