

ThermoActive™ Alcohol dehydrogenase – Adh131

Product information

Available as freeze dried powder, ~90% pure by SDS-PAGE.
 Molecular weigh 32kD.
 Activity: 14.5 U/mg at 60°C pH 8.
 Store at a dry & cool place at 4°C, 32 kD.

Enzyme activity

MDR: zink-containing "long chain" Alcohol dehydrogenase Most active on n-butanol, low activity on ethanol. Some reductive sideactivity on ketones, highly S-enantioselective with > 99%.

Assay

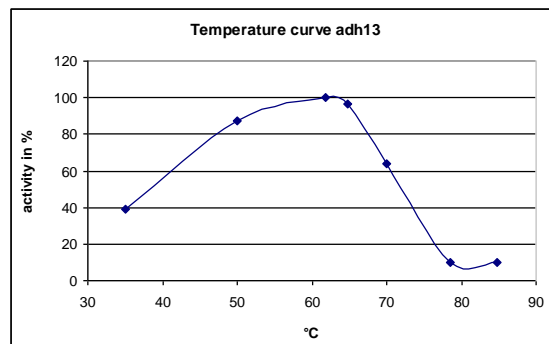
100 µl sample
 100µl 1-butanol (110mM)
 200µl NAD⁺ (50mM)
 100µl KPO₄ pH 8 (500mM)
 10 µl zinksalt (100mM)
 390µl dH₂O

Incubated at 60°C for 10min. Reaction stopped on ice. Spin shortly at 4°C before measuring the absorbance.

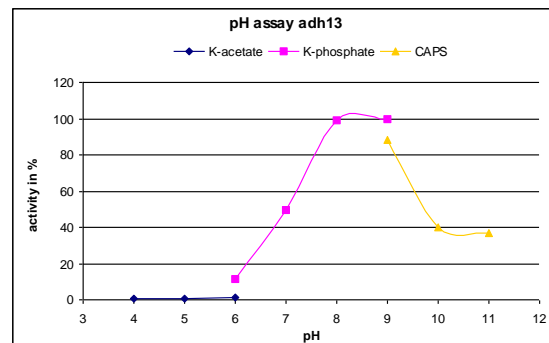
Unit definition

Absorbance measured at 340nm (NAD⁺ turning into NADH) Units (U) are defined as µmol/min of product released.

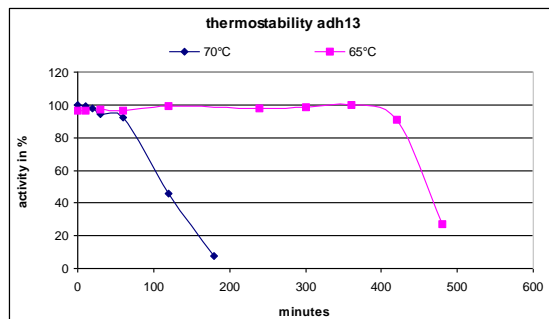
Temperature optimum



PH optimum



Thermostability



Limited usage statement: see; www.prokazyme.com