

## XDH

### Native Xanthine Oxidase/XDH, Bovine Milk

<b>Catalog No.</b>	CSI14882A CSI14882B	<b>Quantity:</b>	50U 500U
<b>Alternate Names:</b>	Xanthine dehydrogenase/oxidase, XDH		
<b>Description:</b>	Xanthine oxidase was prepared from bovine milk as a ammonium sulfate suspension. Xanthine oxidase is a complex enzyme containing flavins, molybdenum, iron and sulfide cofactors. Determination of serum Xanthine oxidase level serves as a sensitive indicator of acute liver damage such as jaundice.		
<b>UniProt ID:</b>	P80457		
<b>Source:</b>	Bovine milk		
<b>Molecular Weight:</b>	275 kDa		
<b>Formulation:</b>	Ammonium Sulfate Suspension Soluble in deionized water or dilute buffer.		
<b>Specific Activity:</b>	1.0 - 4.0 U/mg protein		
<b>Concentration:</b>	~10 mg/ml (biuret)		
<b>Unit Definition:</b>	One unit is the amount of enzyme which catalyzes the oxidation of one micromole of Xanthine to uric acid per minute at 37°C and pH 7.5.		
<b>Assay Method:</b>	The increase in absorbance at 290 nm, caused by the oxidation of Xanthine to uric acid, is a measure of the catalytic activity of Xanthine oxidase (Kalckar, H.M., J. Biol. Chem., 167, 429, 1947).		
<b>Storage &amp; Stability:</b>	Store as supplied at 2-8°C for at least 1 year. <b>Do not freeze.</b> <b>Traces of heavy metals adversely affect stability.</b>		
<b>Country of Origin:</b>	USA		

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