



Ketoamine Oxidase Catalogue No. KEOX-70-1264

Origin: *Fusarium oxysporum*

Specifications:

Appearance: Yellow/brown liquid, particulate free
Activity: >200.0 U/ml liquid at 25°C

Characteristics:

Molecular Weight:	45.5 kDa (gel filtration)	See Fig 1
	44 kDa (SDS PAGE)	See Fig 2
Isoelectric point:	4.7	
Substrates include:	Fructosyl lysine Fructosyl valine Butyl-amino-deoxy-fructose (BADF)	
Optimum pH:	7.5-8.0	See Fig 3
pH stability:	6.0-7.0 (37°C, 10 min, 10µM FAD)	See Fig 4
Thermal stability:	Below 45°C (pH 6.5, 10 min.)	See Fig 5
Frozen stability	2 years below -65 °C	

Fig. 1 Molecular weight (gel filtration)

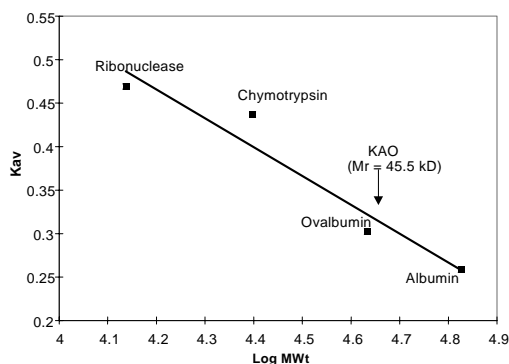
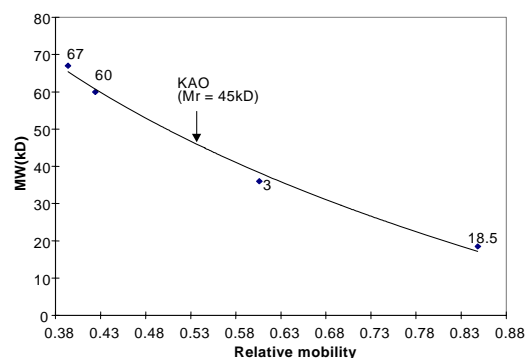


Fig. 2 Molecular weight (SDS PAGE)





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Fig. 3 Optimum pH

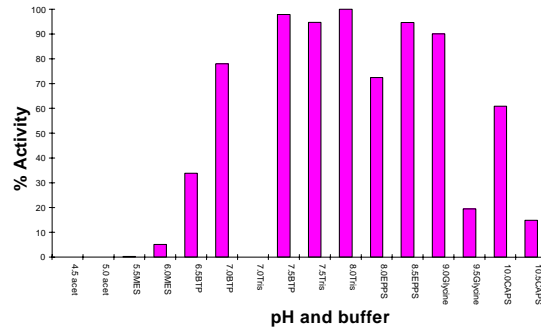


Fig. 4 pH Stability

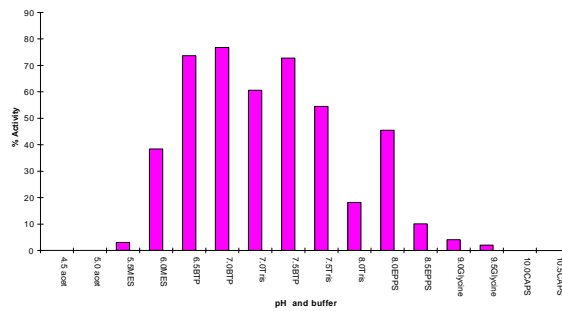
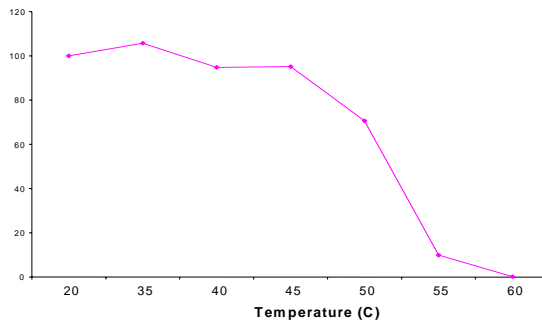


Fig. 5 Thermal Stability



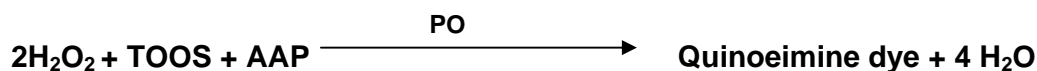
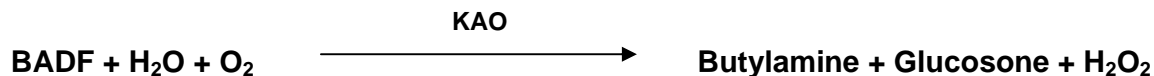
Samples were heated for 10 min. at each temperature



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Assay Principle:

Ketoamine Oxidase catalyses the following reaction:



The formation of quinoeimine dye can be measured spectrophotometrically at 550nm.

Unit Definition

One unit of KAO is defined as the amount of enzyme required to catalyse the formation of one micromole of hydrogen peroxide per minute at 25°C under the standard assay conditions

(See Analytical Method for full details)

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