



## Ketoamine Oxidase Catalogue No. KEOX-70-1264

**Origin:** *Fusarium oxysporum*

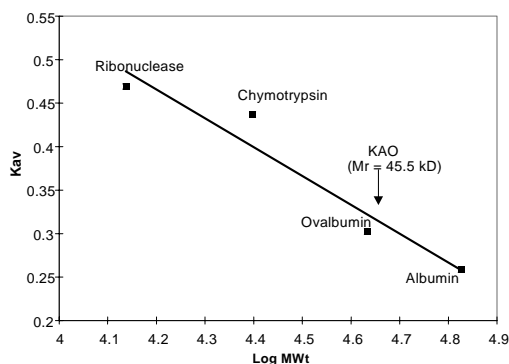
### Specifications:

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

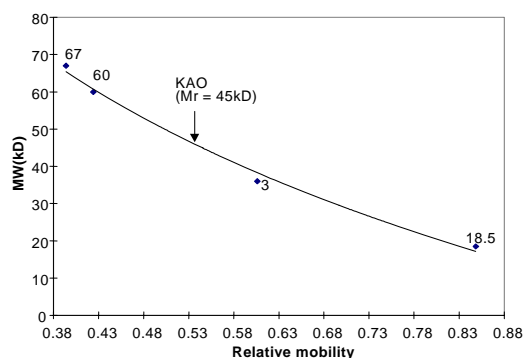
### Characteristics:

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)



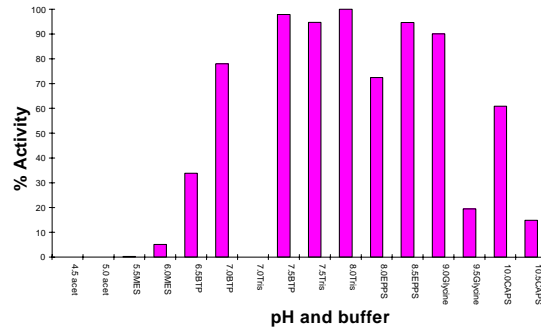
**Fig. 2** Molecular weight (SDS PAGE)



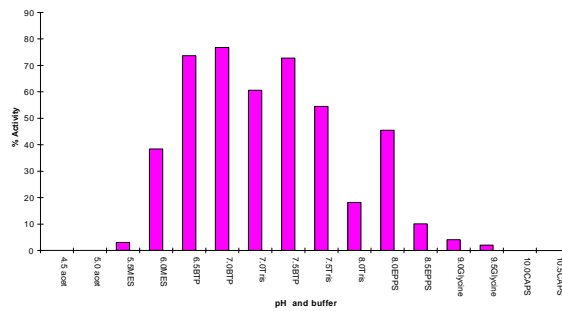


## Ketoamine Oxidase (Catalogue No. 1264)

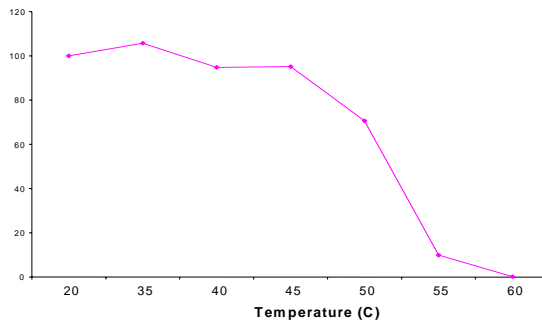
**Fig. 3 Optimum pH**



**Fig. 4 pH Stability**



**Fig. 5 Thermal Stability**



Samples were heated for 10 min. at each temperature

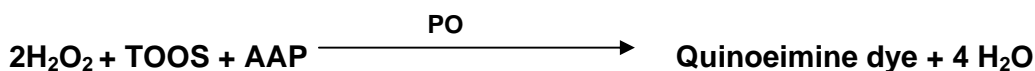
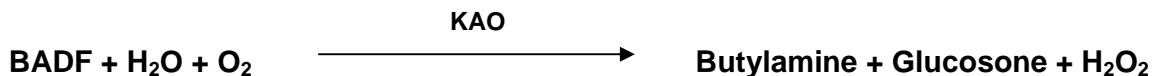


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## **Ketoamine Oxidase** **(Catalogue No. 1264)**

### **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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Intended for use in the manufacture of IVDs