Certificate of Analysis

Galactose Oxidase (GAO, D-Galactose Oxygen-6-oxidoreductase)

EC=1.1.3.9; Dactylium dendroides

Molecular Biology Grade

Catalog No	(CAS No	Molecular Formula	Molecular	Weight	Storage
MBS653678	9028-79-9			~68kD		-20°C
Lot No	Control No	Revision No	Revised By	Approved By		
L16050425	C16050425	072215				

Galactose oxidase (GAO) produced by the fungus *Dactylium dendroides* is used in the quantitative determination of galactose in blood and other biological fluids. Because GAO oxidizes galactose even in polysaccharides it has been used to locate galactose histochemically and to detect and distinguish alveoprofeins. and distinguish glycoproteins.

Specifications:

Lot Analysis:

Source:

Dactylium dendroides

Form:

Supplied as a lyophilized powder from sodium phosphate and sucose.

Reconstitution:

Reconstitute with sterile ddH2O

Activity:

≥30 units per dry weight

70u/mg dw

% Catalase:

As Reported

5.3%

mg/ml (A280):

As Reported

0.38

Unit Definition:

1 unit is a change in absorbance at 425nm of 1.0 per minute at 25°C, pH 6.0, in a coupled peroxidase/o-tolidine system, using galactose as a substrate.

Storage and Stability:

Lyophilized powder may be stored at -20°C. Stable for 6 months after receipt at -20°C. Reconstitute with sterile ddH2O. Aliquot to avoid repeated freezing and thawing. Store at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

assay buffer.

^{1.} Aavigad, G., et al., J. Biol. Chem. **237**: 2736 (1962). 2. Amaral, D., et al., J. Biol. Chem. **238**: 2281-2284 (1963). 3. Amaral, D., Kelly-Falcoz, F. & Horecker, B.: Galactose Oxidase of Polyporus circinatus, Methods in Enzymology 9, W. Wood, Academic Press, NY, 87, 1966. 4. Avigad, G., et al., Biochem. Biophys. Res. Commun. **4**: 474 (1961). 5. Avigad, G., Arch. Biochem. Biophys. **239**: 531 (1985). 6. Blumberg, W., et al., Biochim. Biophys. Acta **96**: 336 (1965). 7. Cleveland, L, et al., Biochem **14**: 1108 (1975). 8. Cooper, J., et al., J. Biol. Chem. **234**: 445 (1959).