

Xanthine Oxidase Grade II

Catalog number:	P2010006
Lot number:	0119P0006
Expiration date:	03/24/2023
Package Size:	5 U, 25 U, 100 U and bulk
Unit Definition:	Amount of enzyme that produces one micromole of uric acid per minute at pH 7.5 and 25 °C.
Specific Activity:	16 U/mg
Molecular Weight:	160 kDa
Appearance:	Brow-red lyophilized powder
Storage:	-20°. Avoid repeated freeze-thaw.
pI:	4.0
Purity:	Uricase, phosphatase < 0.001%
Source:	Microbial

Recommended Buffer: pH 7.5 without reducing agents

Product Description: Xanthine oxidase catalyzes the following reaction:
$$\text{Xanthine} + \text{O}_2 + \text{H}_2\text{O} \rightarrow \text{Uric acid} + \text{H}_2\text{O}_2$$
Xanthine oxidase uses molybdenum as cofactor and plays a central role in the metabolism of nucleotides. It is extensively used in enzymatic assays for the determination of inorganic phosphorus, 5'-nucleotidase (5'-NT) and adenosine deaminase (ADA).

WARNING: This product is for **Research Use Only (RUO)**. This product is not for administration to humans or animals. This product is not for human or veterinary diagnostic or therapeutic use.

SAFETY: User must review the **Material Safety Data Sheet (MSDS)** provided with this product. In addition, this product should not be ingested, inhaled, swallowed or put in contact with eyes, skin or clothes. Furthermore, as a universal safety precaution, we recommend that this product be treated as hazardous until information to the contrary becomes available.

WARRANTY AND LIMITATIONS: Molecular Depot makes no warranty or guarantee of any kind (written, oral, expressed or implied) of the fitness or suitability of this product to any user's particular purpose or application. Furthermore, in no event will Molecular Depot LLC have any obligation or liability for any direct, indirect, incidental or consequential use of this product. All sales of this product are final and non-refundable.