

Monoamine Oxidase Assay Kit

Cat. No. Kit-0539 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Monoamine Oxidase Assay Kit is a quantitative determination of monoamine oxidase activity.
Description	MONOAMINE OXIDASES (MAO, EC 1.4.3.4) are a family of mitochondrial enzymes that catalyze the oxidative deamination of monoamines. MAO dysfunction is thought to be responsible for a number of neurological disorders. Unusually high or low levels of MAOs in the body have been associated with depression, schizophrenia, substance abuse, attention deficit disorder, migraines, and irregular sexual maturation. MAO inhibitors are one of the major classes of drug prescribed for the treatment of depression.
Applications	MAO-A/B activity determination in biological samples. Evaluation and screening for MAO inhibitors.
Usage	For research use only (RUO)
Storage	Store Assay Buffer and Hydrogen Peroxide at 4°C and other reagents at -20°C. Shelf life: 6 months after receipt.
Kit Components	Assay Buffer (pH 7.4) 12 mLp-Tyramine 120 uLPargyline (20 mM) 50 µH ₂ HRP Enzyme 120 uLClorgyline (20 mM) 50 µDye Reagent 120 uLHydrogen Peroxide (3% H ₂ O ₂) 100 µ
Detection method	Fluorometric

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**Compatible Sample
Types**

Biological Sample

Features & Benefits

Safe: Non-radioactive assay. Sensitive and accurate: As low as 0.01 U/L MAO activity can be quantified. Homogeneous and convenient: "Mix-incubate-measure" type assay. No wash and reagent transfer steps are involved. Robust and amenable to HTS: can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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