# Monoamine Oxidase B (MAO-B) Inhibitor Screening Kit (Fluorometric)

**Cat. No.** Kit-2362 **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Monoamine oxidases (MAO, EC 1.4.3.4) are a family of enzymes that can oxidize a wide variety of endogenous primary amines. Two isoforms, MAO-A and MAO-B, have been identified based on their substrate, inhibitor specificity, and tissue localization. MAO-B can oxidize primary amines, but its list of specific substrates (i.e. benzylamine, phenylethylamine) is more limited compared to MAO-A. MAO-B is a mitochondrial-bound enzyme that is ubiquitously expressed throughout the brain and other tissues. It has been investigated in numerous studies including Parkinson's disease, Alzheimer's, and tobacco addiction. Specific MAO-B inhibitors such as selegiline, & rasagiline have been used to treat Parkinson's patients, but their benefits are considered rather modest. MAO-B Inhibitor Screening Kit offers a rapid, simple, sensitive, and reliable test suitable for high-throughput screening of MAO-B inhibitors. The assay is based on the fluorometric detection of H2O2, one of the byproducts generated during the oxidative deamination of MAO substrate. |
| **Applications** | Screening/studying/characterizing MAO-B inhibitors |
| **Storage** | -20°C |
| **Shipping** | Gel Pack |
| **Size** | 100 assays |
| **Kit Components** | MAO-B Assay Buffer; OxiRed; Probe (in DMSO); MAO-B Enzyme (Lyophilized); |

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| | MAO-B Substrate (Lyophilized); Developer (Lyophilized); Inhibitor Control (Clorgyline) (Lyophilized) |
| **Detection method** | Fluorescence (Ex/Em = 535/587 nm) |
| **Features & Benefits** | Rapid & sensitive; High-throughput assay to screen/study/characterize potential inhibitors of monoamine oxidase B; Includes Inhibitor Control [Selegiline] |

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