PRODUCT: MTS Reagent

ALTERNATE NAME: 3-(4,5-Dimethylthiazol-2-yl)-5-(3-carboxymethoxyphenyl)-2-(4-sulfophenyl)-2H-tetrazolium, inner salt; Owen’s reagent

CATALOG #: 2808-250, 1000

AMOUNT: 250 mg, 1 g

STRUCTURE:

MOLECULAR FORMULA: C_{20}H_{17}N_{5}O_{6}S_{2}

MOLECULAR WEIGHT: 487.51

CAS NUMBER: 138169-43-4

APPEARANCE: Yellow solid

SOLUBILITY: DMSO, DPBS (2 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from light and moisture

DESCRIPTION: MTS reagent is a tetrazolium inner salt useful for determining the number of viable cells in proliferation or chemosensitivity assays. MTS is bioreduced by cells into a colored formazan product that is soluble in tissue culture medium. This conversion is thought to be carried out by NAD(P)H-dependent dehydrogenase enzymes in metabolically active cells. Homogeneous, Colorimetric Cell Viability Assay requires the mixing of MTS Reagent and PMS components prior to the assay followed by 1-4 hours of incubation.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure

RELATED PRODUCTS:
- MTS Cell Proliferation Colorimetric Assay Kit (Cat. No. K300)
- MTS Reagent (Cat. No. 2808)
- MTT Reagent (Cat. No. 2809)
- Brdu Cell Proliferation Assay Kit (Cat. No. K306)
- EZViable™ Calcein AM Cell Viability Assay Kit (Cat. No. K305)
- Quick Cell Proliferation Colorimetric Assay Kit (Cat. No. K301)
- Quick Cell Proliferation Colorimetric Assay Kit Plus (Cat. No. K302)
- VisionBlue™ Quick Cell Viability Fluorometric Assay Kit (Cat. No. K303)

USAGE: FOR RESEARCH CH USE ONLY! Not to be used in humans