

## Product Information

### Mutazyme™



Part Number	Description	Reconstituted Fill Size
11-404L	10% S9 Mix, PB/BNF induced	20 ml
11-405L	5% S9 Mix, PB/BNF induced	20 ml
11-406.3L	30% S9 Mix, PB/BNF induced	3.25 ml

**Intended Use:** Conveniently pre formulated lyophilized S9 Mix. Once reconstituted and delivered to the test system, P450-mediated metabolism of potential carcinogens may result in the generation of metabolites that exhibit activities that are not observed in the parental material.

**Warnings and Precautions:** For Laboratory Use Only. Observe aseptic techniques and established precautions against microbiological hazards throughout all procedures. After use, dispose of all materials according to your institutional biohazard program.

**Storage:** Upon receipt, store Mutazyme™ under standard freezer conditions (approximately – 20°C).

**Reconstituting Mutazyme™ :** When reconstituting Mutazyme™, use ice-cold, sterile deionized water. Add a volume of water equivalent to the fill size in milliliters on the product vial. Store the reconstituted S9 Mix on ice until use.

Only reconstitute enough Mutazyme™ for use that day. Do not refreeze unused material as freeze/thaw cycles of S9 Mix will affect the quality of the material and may cause erroneous results.

**Procedure:** As S9 Mix is used in several types of assays, there is no specific method that applies to all testing. Please refer to the following guidelines for information on how to use S9 Mix:

[In vitro genotoxicity tests-](#)

OECD 471 - Genetic Toxicology: Bacterial Reverse Mutation Assay

OECD 473 - Genetic Toxicology: *In vitro* Mammalian Cytogenetic Test

OECD 476 - Genetic Toxicology: *In vitro* Mammalian Cell Gene Mutation Tests using the *Hprt* and *xprt* genes

OECD 487 - Genetic Toxicology: *In vitro* Mammalian Cell Micronucleus Test

OECD 490 – Genetic Toxicology: *In vitro* Mammalian Cell Gene Mutation Tests using the Thymidine Kinase Gene

OECD guidelines can be obtained free of charge from [www.oecd.org](http://www.oecd.org).

**Expected Results:** Refer to the appropriate OECD guideline for expected assay results.

**Induction Information:** Induction Information: PB/BNF – Phenobarbital/β-Naphthoflavone

Matushima, et. al. 1976. In: de Serres, F.J, et. al., editors. *In Vitro Metabolic Activation in Mutagenesis Testing*. Amsterdam (NL) Elsevier/North Holland p. 85-88.

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