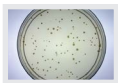




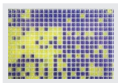
## Genetic Toxicology Testing

# MUTAZYME™

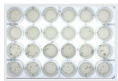
- **Rat liver S9 Mix complete**
- With NADPH regenerating system & Co-factors
- Lyophilized (-20°C storage)
- Complete and ready to use after reconstitution for following assays:



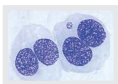
**Ames Plate Incorporation Assay (5% and 10% MUTAZYME™)**



**MOLTOX® FT™ "471"  
Ames II and other liquid formats (30% MUTAZYME™)**



**Micro Ames Test**



**Micronucleus Testing**



**MOLTOX PRODUCTS  
DELIVERY FROM STOCK!**

Catalog No	Description		Storage	Size
11-401.3L	MUTAZYME™ 30% S9 Mix, SD rat liver Aroclor	lyophilized	-20°C	3.25 ml per vial
11-401.6L	MUTAZYME™ 30% S9 Mix, SD rat liver Aroclor	lyophilized	-20°C	6.5 ml per vial
11-402L	MUTAZYME™ 10% S9 Mix, SD rat liver Aroclor	lyophilized	-20°C	20 ml per vial
11-403L	MUTAZYME™ 5% S9 Mix, SD rat liver Aroclor	lyophilized	-20°C	20 ml per vial
11-404L	MUTAZYME™ 10% S9 Mix, SD rat liver <b>PB/BNF</b>	lyophilized	-20°C	20 ml per vial
11-405L	MUTAZYME™ 5% S9 Mix, SD rat liver <b>PB/BNF</b>	lyophilized	-20°C	20 ml per vial



For information send an E-Mail to [info@trinova.de](mailto:info@trinova.de)

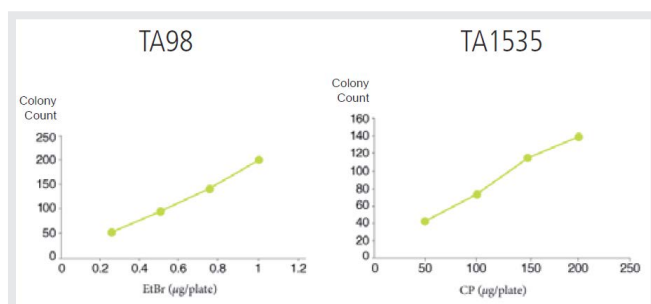
## Composition

MUTAZYME™ consists of Aroclor 1254-induced male SD rat liver S9 that has been freeze dried with NADP, D-glucose-6-phosphate, MgCl<sub>2</sub>, KCl in pH7.4 sodium phosphate buffer. After reconstitution, the resultant S9 Mix cofactor solution is as described by Maron and Ames (Mutat res, 113:173-215, 1983).

MUTAZYME™ 5% and 10% S9 Mix may be directly used in standard plate incorporation assays. 30% S9 Mix products were specifically developed for use in microtiter fluctuation tests (e.g. Moltox® FT™ tests).

## Activity

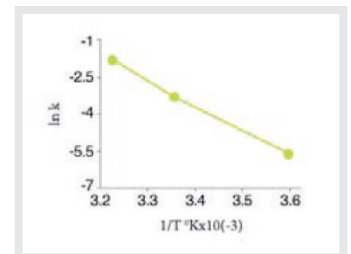
MUTAZYME™ products are subjected to the same Quality Control analyses as Moltox's standard frozen and lyophilized S9. Each lot is accompanied by product data sheets, which include the results of bioassay and biochemical analyses, such as alkoxyresorufin-0-dealkylase activities, total protein content, S9 titrations vs. treatments of TA100 with B(a)P and 2-AA, TA1535 and TA98 responses to CP and EtBr.



## Stability

The stability of MUTAZYME™ was evaluated by conducting accelerated ageing studies at temperatures ranging between -20°C (the recommended storage temperature) and +50°C. Shelf life was estimated using an Arrhenius model (Kirkwood, T, Biometrics, 33:736-742, 1977; Anderson, G and M Scott, Clin Chem, 37:396- 402, 1991).

The results indicated that > 95% of the original activity can be expected after 1 year storage at -20°C.



## Advantages

- MUTAZYME™ is complete and ready to use after reconstitution with cold sterile purified water
- No secondary reagents/solutions are required
- MUTAZYME™ can be stored in an ordinary -20°C freezer
- MUTAZYME™ is completely characterized and contains the S9 and NADPH-regenerating system recommended by Maron and Ames (Mutat res, 113:173-215, 1983)

## About Us

TRINOVA BIOCHEM GmbH is the European distributor of MOLTOX®, the leading manufacturer of products used in the Salmonella and E. coli WP2 mutagenicity tests: Minimal glucose agar plates, top agars, Salmonella and E. coli tester strains, frozen and lyophilized S9, MUTAZYME™, NADPH-regenerating systems and positive control chemicals. The BioReliance® Ames II™ test kit produced by MOLTOX® is distributed by TRINOVA in Europe as well.