

AMES TESTING S9 FRACTIONS

POST - MITOCHONDRIAL SUPERNATANT

KRISHGEN BioSystems



**LEADERS IN
AMES TESTING
WORLDWIDE**

Intended Use: S9 is an exogenous mammalian source of cytochrome-P450 enzymes. When delivered to the test system in the presence of NADP and cofactors for NADPH supported oxidation (i.e. S9 mix), P450-mediated metabolism of potential carcinogens may result in the generation of metabolites that exhibit activities that are not observed in the parental material.

Storage: Upon receipt, store frozen S9 under ultralow freezer conditions (-80°C < -70°C). Store lyophilized S9 under standard freezer conditions (approximately -20°C). When thawing S9, do so under strict observation, preferably thawing S9 on ice. Refreezing of S9 will affect the quality of the material.

Reconstituting lyophilized S9: When reconstituting lyophilized S9, 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 on ice until use.

Procedure: As S9 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.

S9 requires a NADPH regenerating system, not included. Refer to appropriate test method for information on the appropriate system. Moltox offers a prepare NADPH regenerating system (Regensys A and Regensys B) that may be appropriate for your assay.

Expected Results:

Refer to the appropriate OECD guideline for expected assay results.



**AMES TESTING
BACTERIAL
STRAINS -
CULTURED DISCS**

***S. typhimurium* and *E. coli* WP2 strains**

Strain Designation	Reversion Event	Plasmid
TA1535	Base-pair substitution	N/A
TA1537	Frameshift	N/A
TA1538	Frameshift	N/A
TA100	Base-pair substitution	pKM101
TA97a	Frameshift	pKM101
TA98	Frameshift	pKM101
TA102	Transition/transversion	pKM101, pAQ1
WP2	Base-pair substitution	N/A
WP2, uvrA	Base-pair substitution	N/A
WP2, pKM101	Base-pair substitution	N/A
WP2, uvrA, pKM101	Base-pair substitution	N/A

