

TOXNEWS

AMES

Bacterial Reverse Mutation Assay



Assay Points:

- Plate Incorporation Method
- Five Strains Tested per Assay (WP2, TA97a, TA1535, TA98, TA100)
- Five Concentrations per Test Article
- Triplicate Plates per Concentration
- Toxicity Screen (One Strain, 5 Concentrations)
- Validation Performed on 12 Chemicals

Validation Summary

Chemical	Strain Metabolic Activation	WP2		TA97a		TA1535		TA98		TA100	
		+S9	-S9	+S9	-S9	+S9	-S9	+S9	-S9	+S9	-S9
2- Aminoanthracene		+	-	+	-	+	-	+	-	+	-
Benzo(a)pyrene		+	-	+	-	+	-	+	-	+	-
Methyl Methanesulfonate		+	+	+	+	+	+	+	+	+	+
Sodium Azide		-	-	-	-	+	+	-	-	+	+
Daunomycin		-	-	-	-	-	-	+	+	-	+
ICR-191		-	-	+	+	+	-	-	+	-	+
2-Acetamidofluorene		-	-	-	-	-	-	+	-	+	-
7,12-Dimethylbenz[a]anthracene		-	-	+	-	-	-	+	-	+	-
Mitomycin C*		-	-	-	-	-	-	-	-	-	-
Cyclophosphamide**		-	-	-	-	-	-	-	-	-	-
9,10 Dimethylanthracene		-	-	+	-	-	-	+	-	+	-
4-Nitroquinoline 1-oxide		+	+	-	+	+	+	+	-	+	+

* Cytotoxicity noted. Positive in alternate strain (TA102).

** Being retested at higher concentrations.

Protocol and Validation Report available upon request.

Micronucleus and Mouse Lymphoma genotoxicity assays will be available soon.

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