

AMES TESTING BACTERIAL STRAINS

LYOPHILIZED CULTURE DISCS

KRISHGEN BioSystems



LEADERS IN
AMES TESTING
WORLDWIDE

Intended Use: For use in the *in vitro* Bacterial Reverse Mutation Test; i.e. Ames Assay. See below table to determine the reversion event that each strain detects and for plasmid information.

Warnings and Precautions: The bacterial strains contained in the lyophilized discs are potential etiologic agents and are intended for use only by those skilled in the safe handling of potentially infectious agents. The strains are considered BioSafety Level 2 organisms and should be handled accordingly [see CDC/NIH Biosafety in Microbiological and Biomedical Laboratories, HHS Publication (CDC) 93-8395. Available from US Government Printing Office, Superintendent of Documents, Washington DC 20402 (Stock No. 017-040-00523-7)]. Observe aseptic techniques and established precautions against microbiological hazards throughout all procedures. Dispose of cultures according to your institutional biohazard program

Storage: Upon receipt, store discs under refrigeration at 2 – 8°C.

Procedure: Warm the product vial to room temperature and remove the cap and stopper so as to avoid contaminating the assembly. Using a flamed or disposable bacteriological loop, needle, or tweezers, aseptically remove one or more discs and use to inoculate a quantity of Oxoid#2 nutrient broth. Use a vessel that is 3 – 5 times the volume of the culture to ensure adequate aeration. For pKM101-containing strains, add ampicillin to achieve a final concentration of 25 µg/ml. For pAQ1 strains, add tetracycline to achieve a final concentration of 2 µg/ml. Incubate on a shaker (150 - 160 rpm) @ 37°C until 1 – 2 x 10⁹ colony forming units/ml is achieved.

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

