OECD 471: Ames Test

The Ames test, a **bacterial reverse mutation assay**, is the **most commonly requested genotoxicity study** in regulatory testing frameworks and has been in use for decades. The test investigates the ability of test substances to cause **specific mutations in Salmonella or E. coli strains** that allow them to then grow on selective agar plates. Used to detect DNA reactive mutagens, which have the **potential to be highly potent in vivo**, Ames positive **results are taken very seriously** when assessing safety. As such, the Ames test is an **essential component** for the assessment of genotoxic liability.

Gentronix have conducted these studies to GLP since 2014, and our senior study director has been working on Ames tests for over 40 years, **meaning we have exceptional experience in this area.**

OECD 471 Ames Test Strains	TA98, TA100, TA1535, TA1537, TA102, TA97, TA97a, uvrA/pKM101, WP2 pKM101, WP2 uvrA
Metabolic activation	Typically induced rat liver S9, though other sources are available
Test Format	Plate incorporation, pre-incubation
Typical test item requirements	1.5 g
Formulation Analysis	Available upon request
Endpoint	Mutagenicity

Utilise this test for your toxicology screening needs and talk to our Tox Team at **+44(0) 1625 238700** or email at **info@gentronix.co.uk**

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