

OECD 490: Mouse Lymphoma Assay (MLA)

The mouse lymphoma assay is one of the **mammalian gene mutation assays available** and is **frequently utilised** in most genotoxicity testing regulatory frameworks. Able to detect point mutations, clastogens, and in some cases aneugens; the mouse lymphoma assay **has an advantage compared to the HPRT** (the alternative mammalian gene mutation assay) due to its capability to **detect a broader spectrum of genotoxic effects**.

The mouse lymphoma assay was previously included in OECD guideline 476 for mammalian cell gene mutation, but was separated out into the **new OECD 490 guideline** in 2015. Our study director has been **working on mouse lymphoma assays for > 14 years**, gaining **extensive experience** of running this study type within industry.

Test system	L5178Y TK+/-3.7.2C
OECD guideline	490
Test Format	3 hr +/- S9, and extended exposure -S9 Duplicate cultures are used
Typical test item requirements	Typically 5 g
Endpoint	Mammalian gene mutation

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**