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# XENOMETRIX

## Newsletter

Issue 7 / Mai 2010

Dear customer,

In our sixth newsletter we present a study comparing Ames MPF Penta I with published Ames plate incorporation results. We also announce a new partnership with MetaSystems GmbH which offers a novel and additional automation step for the Ames MPF / Ames II platform: fully automated data reading and archiving of results. Also, we introduce the novel Ames MPF YG kit for mutagenicity testing in the microplate format using the strains YG1021, YG1024 and YG1041.

For further information please feel free to contact us by phone +41-61-482 14 34 or by email: [info@xenometrix.ch](mailto:info@xenometrix.ch)

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### Comparison of Ames MPF PENTA I with Ames Plate Incorporation Results

Xenometrix tested 17 mutagenic reference compounds with the 5 tester cultures of the PENTA I kit (TA98, TA100, TA15335, TA1537 and EC wp2 *uvrA* plus EC wp2 [pKM101]) and compared the results with those of the plate incorporation test published mainly in the national toxicology program NTP database.

The study revealed a 100% overall concordance between the Ames MPF and the plate incorporation method to identify mutagens. The strain-specific concordance was: 100% for TA100 and TA1537, 93% for TA1535 and 86% for TA98. The *E. coli* Combo results (*uvrA* plus [pKM101]) were compared with data available for A:T responding strains (TA102, EC wp2 *uvrA* and EC wp2 *uvrA* [pKM101]) and resulted in a 100% concordance.

▶ Please find the detailed results of this internal study on our homepage

The table displays a comparison of Ames MPF PENTA I results with Ames Plate Incorporation Results for 17 mutagenic reference compounds. The columns include Compound, Strain, Ames MPF PENTA I (TA98, TA100, TA15335, TA1537, EC wp2 *uvrA* plus EC wp2 [pKM101]), and Ames Plate Incorporation Results. The table shows a high level of concordance between the two methods.

### Full automation of Ames MPF / Ames II data reading, identification of positive wells and archiving: Xenometrix starts partnership with MetaSystems GmbH

The automated slide scanning platform Metafer of MetaSystems is widely used for automated analysis of toxicology test samples. It provides the possibility to automate analysis of various tests commonly used in genetic toxicology and radiation research. This includes the chromosomal aberration test, the cytokinesis block micronucleus assay, the rodent erythrocyte micronucleus assay, the Comet assay and now also the Ames MPF and Ames II assay.



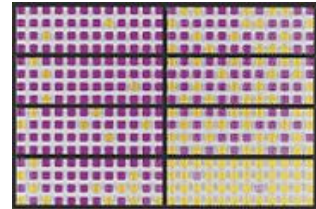
"The automated analysis of the Ames II / Ames MPF test based on Xenometrix' 384-well microtiter plates adds additional value to the versatile, Metafer-based analysis system for genetic toxicology", MetaSystems officials said. "It is now possible to automate and archive analysis of the most important pre-clinical tests on one hardware platform with full GLP compliancy."

- ▶ More information about MetaSystems
- ▶ More information about pipetting automation

**New: Ames MPF YG**

Xenometrix expands its range of Ames microplate-based mutagenicity test kits and introduces a basic kit for the use with the *S.typhimurium* tester strains YG1021, YG1024 and YG1041. The strains are useful tools for the efficient detection of certain classes of genotoxic chemicals in the environment. The metabolically enhanced tester strains show extreme sensitivity for nitroarenes and/or aromatic amines. They are consequently used to test for the presence of nitro-PAHs and/or heterocyclic amines e.g. in contaminated river sediments.

The basic Ames MPF YG kit comes in two sizes: 1 or 6 compounds, when tested in triplicates, 6 dilutions, negative and positive control, with and without S9. The kit includes media, a detailed instruction manual, but not the YG strains, the positive controls or the antibiotics. S9 is available separately.



► [More information](#)

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**What's up besides business: Xenometrix has organized its second international distributor meeting with participants from all over the world.**

At the end of the meeting, Xenometrix organized a spectacular trip to the "Top of Europe" called "Jungfrauoch", a fascinating glaciers world! At an altitude of 3454 m it is the highest railway station in Europe with a breathtaking view: To the North lay the mountains of the Jura, to the south the endless ice flows of Europe's largest glacier, the Aletsch glacier. We highly recommend a trip to this fascinating glacier world after a wet workshop or a meeting at Xenometrix.

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