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XENOMETRIX

Newsletter

Issue 4 / October 2009

Dear customer,

in our forth newsletter we discuss the limits of miniaturization of the Ames test and present results with a selected number of weakly mutagenic compounds.

There will be various opportunities to meet and discuss with us at the upcoming EMS meeting in October. We would be happy to welcome you at the Xenometrix booth to inform you on our latest products.

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

Kind regards from Switzerland
Xenometrix AG

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On the limits of miniaturization of the Ames test

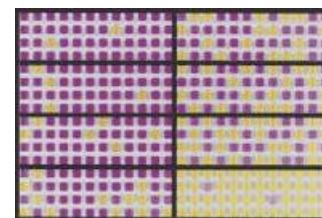
Summary

Limited availability of test compounds necessitates to miniaturize early pre-clinical toxicity or mutagenicity assays such as the Ames test. We discuss the factors that may be limiting for miniaturized assays such as the liquid microplate versions Ames MPF/Ames II. Upon reducing the number of bacteria a point will be reached where the solvent controls approach zero and thus would no longer allow to calculate a reliable "fold induction". It is concluded that the Ames II / Ames MPF liquid microplate versions of the Ames test achieve an optimal level of miniaturization without compromising reproducibility and sensitivity, particularly towards weak mutagens.

[The full text can be read on our homepage](#)

[More information on the historical spontaneous reversion rates](#)

[More information on the Ames MPF kits?](#)



Weak mutagens in the Ames II / Ames MPF assay

Reducing the number of bacteria and amount of test compound in an assay like the Ames MPF should not compromise the sensitivity of the assay, and weak mutagens should still be detectable. We have compared three typical "weak" mutagens in the Ames plate incorporation assay (from the NTP database) and in the Ames liquid microplate format.

▶ The detailed results can be seen on our homepage



How to run the Ames MPF assay

On the Xenometrix home page you find the procedure of the Ames MPF, Ames II mutagenicity assay under "Visual Guide for Ames MPF". You can learn how to perform the assay step-by-step, which equipment you need and how to interpret the results.

▶ Visual guide for Ames MPF



Congresses

We are looking forward to welcome you at our stand at the following events:



Congrès Annuel de la SFT, Nancy, France, 19. - 20. October, 2009

[More information:](#)

EMS, St. Louis, USA, 25.-27.October, 2009

[More information:](#)

What's up besides business

The Swiss soccer team qualified for the Football World Championship in South Africa next year! The team secured the first place in its qualifying group with a 0:0 against Israel. Second-ranked former European Champion Greece has yet a chance to qualify in 2 so called "Barrage" matches against another second-ranked team from a different qualifying group. We congratulate the Swiss team for this formidable success and look forward to exciting matches next year!



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