

XenoScreen YES YAS
XenoScreen XL YES
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Estrogen/Androgen Screening Assay

- Rapid, high-sensitivity, individual or combined YES (estrogen) and YAS (androgen) test kits for the determination of hormonally active compounds in environmental, chemical and cosmetic samples
- The tests are designed to identify both activating (agonistic) and inhibiting (antagonistic) properties of test samples ranging from fresh water, waste water, aqueous extracts and leachates to chemical or cosmetic compounds and mixtures
- High sensitivity up to: 4×10^{-12} M (LoD)
- Standardized procedure with step-by-step instruction manual for first-time success

XenoScreen YES YAS, Xenoscreen XL YES YAS Endocrine Disruptor Assays

Compounds with estrogenic or androgenic activity are chemicals that may interfere with the body's endocrine system and produce adverse developmental, reproductive, neurological and immune effects in an intact organism.

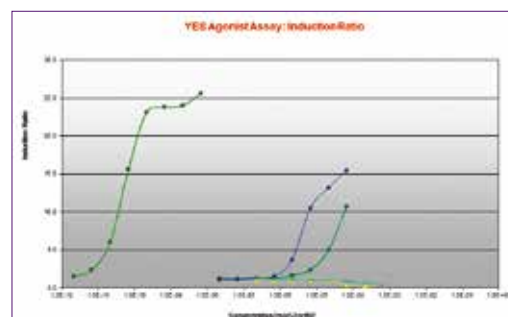
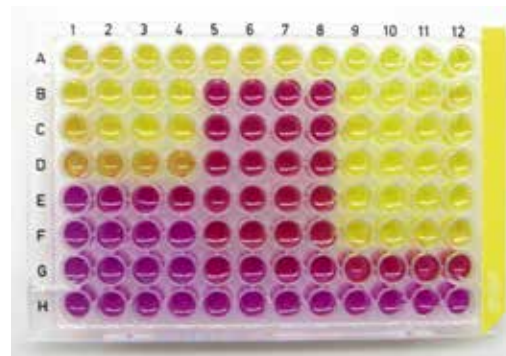
Principle

Human estrogen (YES) and androgen (YAS) receptors are integrated in the yeast (*Saccharomyces cerevisiae*) chromosome.

The cells have a plasmid containing lacZ coding for β -galactosidase under the control of estrogen or androgen response elements. Binding of a compound to the receptor induces the synthesis of β -galactosidase which converts the yellow substrate CPRG to a purple metabolite.

XenoScreen YES YAS and XL YES YAS deliver

- Simultaneous analysis of activating (agonist) and inhibiting (antagonist) behaviour
- High sensitivity up to 4×10^{-12} M
- Results within 48 hours (XenoScreen YES YAS); 18 hours (XenoScreen XL YES YAS)
- Also available: Agonist-only YES or YAS kits – XenoScreen XL YES or XenoScreen XL YAS
- 1–2 hours hands-on time
- 4 x 96 measuring points: Suggested configuration for XenoScreen YES YAS (2 receptors) allows analysis of 5 samples and for XenoScreen XL YES YAS (2 receptors) of 4 samples each in duplicate, 8 dilution steps, detection of agonist and antagonist activities, with positive and solvent controls.
- Agonist-only kits allow alternatively the analysis for up to 32 single-dose samples
- Assay for concentrated or diluted samples requiring 73 μ l or 16 μ l (XL) as little as sample volumes
- Excel calculation sheet for evaluation of results.



Other products available from Xenometrix

Ames Mutagenicity Assays for solid and water samples

Ames MPF 98/100
Ames MPF PENTA I

Ames MPF 98/100 Aqua
Ames II

Ex vivo human and ex vivo pig skin for skin absorption or penetration assays

XenoSkin H, ex vivo human skin in discs or squares, full thickness or dermatomized XenoSkin P, ex vivo pig skin in discs or squares, full thickness or dermatomized Corneum Stratum H, large range of jacketed and unjacketed Franz Cells.

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