



XenoScreen XL XL YES YAS
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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, cosmetic compounds or mixtures like food packaging material.
- High sensitivity up to: 4×10^{-12} M (LoD)
- Standardized procedure with step-by-step instruction manual for first-time success and supported by an excel calculation sheet

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.

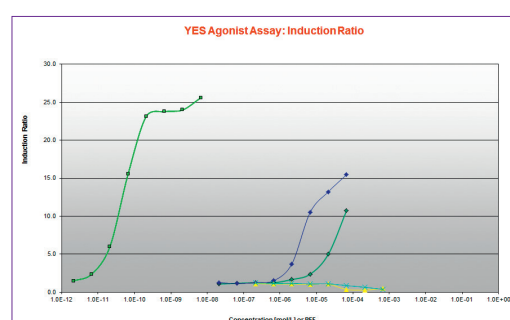
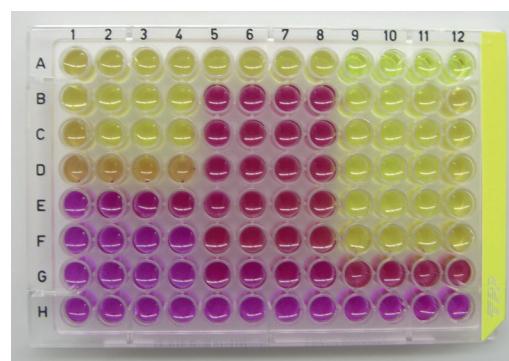
Principle

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 XL YES YAS delivers

- Simultaneous analysis of activating (agonist) and inhibiting (antagonist) behaviour of both, or of 1 receptor
- High sensitivity up to 4×10^{-12} M
- Results within 18 hours
- Also available: Agonist-only YES or YAS kits – XenoScreen XL YES or XenoScreen XL YAS
- 1–2 hours hands-on time
- Flexible kit Configuration: 96 measuring points allow to analyze 4 receptor activities of 4 samples, each in duplicate, 8 dilutions, detection of agonist and antagonist activities, with positive and solvent controls. Other assay configurations are possible, such as 32 samples at only 1 concentration for all 4 receptor activities or 16 compounds respectively, in 8 concentrations but only in one receptor activity.
- Agonist-only kits allow alternatively the analysis for up to 32 single-dose samples
- Assay for concentrated or diluted samples requiring 16 μ l sample volumes
- Excel calculation sheet for evaluation of results is available free of charge.



Products available from Xenometrix

| Product | Art. No. |
|--|--------------|
| Yeast Estrogen/Androgen Screen | |
| XenoScreen XL YES/YAS | N04-233-Y |
| XenoScreen YES Strain (for 20 passages) | N05-230-E |
| XenoScreen YAS Strain (for 20 passages) | N05-230-A |
| XenoScreen XL YES/YAS Culture Maintenance Set | N05-PMY-7 |
| Ames Mutagenicity Assays for solid and water samples | |
| Ames MPF 98/100 Aqua – Ames Test in Liquid Microplate Format | J05-210-S2-P |
| Ames MPF 98/100 – Ames Test in Liquid Microplate Format | A10-210-S2-P |
| MicroAmes6 98/100 – Ames Test in 6 Well Agar Plates | L02-210-S2-P |
| MacroAmes1 98/100 – Ames Test in Petri Dishes | R02-210-S2-P |
| UmuC Easy CS | G06-118-P |

Analytical Services for XenoScreen XL YES/YAS, Ames Test available at info@xenometrix.ch

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