



XenoScreen XL XL YES YAS XenoScreen XL YES XenoScreen XL YAS 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
- Yeast *Saccharomyces Cerevisiae* Cell Line hAR with human Androgen Receptor and hER with human Estrogen Receptor are available individually and can be used for 20 passages with the XenoScreen XL YES YAS Culture Maintenance Set (art.no. N05-PMY-7).
- 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)

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.

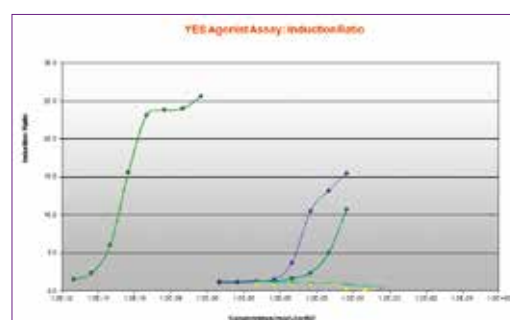
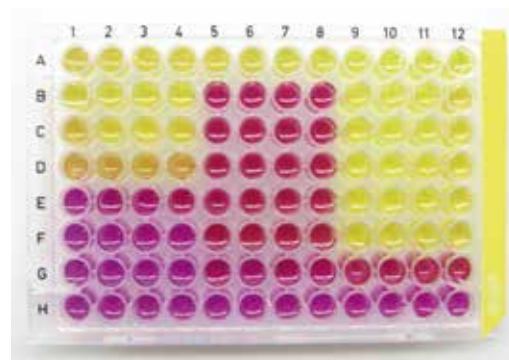
Principle

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.



Product	Art. No.
Yeast Estrogen/Androgen Screen	
XenoScreen XL YES/YAS	N04-233-Y
XenoScreen XL YES (YES agonist assay only)	N32-233-Y
XenoScreen XL YAS (YAS agonist assay only)	N32-234-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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