A-YPS lumi

The innovative yeast assay for the effect-based detection of progestogenic activity

BRIEF DESCRIPTION

The **A-YPS**lumi utilizes the non-conventional yeast biosensor *Arxula adeninivorans*, which carries the gene for the human progesterone receptor β (hPRβ) and the gene for the firefly luciferase. Binding of ligands to the receptor will subsequently activate the production of the reporter enzyme luciferase. The measured relative light units (RLU) correlate with the total concentration of progestogenic activity in the sample. The determination of Progesterone Equivalents (PEQ) is achieved by using sigmoidal dose-response relationship.

KEY SPECIFICATIONS

- Calibration standard: Progesterone
- LOD*: 8.48 ng/L Progesterone
- LOQ*: 18.14 ng/L Progesterone
- Calibration Range: 0 – 500 ng/L Progesterone
- Total assay time: 4.5 h

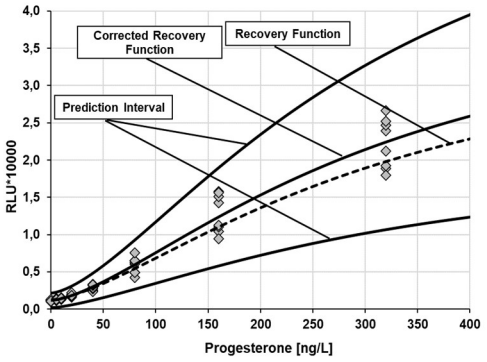
*refers to the results of the in-house validation study

BENEFITS AT A GLANCE

- Quality approved ready-to-use test kit
- No sterile workplace required
- Biosensor contains no antibiotic resistance markers
- Less required sample volume
- Automated data evaluation with BioVAL

VALIDATION

The validation of the **A-YPS**lumi was performed according to a factorial in-house validation study with eight different water samples including drinking and environmental water. The samples were spiked with different concentrations of Progesterone. In this study, relevant parameters affecting the test performance were systematically varied. The validation was planned and accomplished by QuoData GmbH.



BIOVAL

- Web-based software with individual user account
- Application of up-to-date statistical approaches
- Comprehensive editable report

SPECIAL LABORATORY REQUIREMENTS

- BSL1 laboratory
- Incubator + Shaker for microplates (shaker orbit 1.5 – 4.5 mm)
- Microplate reader for luminescence

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