

NEW: *Arxula lumi* test kits

Using bioluminescent *A. adenivorans* biosensors for effect-based detection of endocrine activity



WHAT'S NEW?

New_diagnostics is announcing a new product line based on the yeast *Arxula adenivorans* for the detection of the endocrine activity in various aqueous samples. By using a novel kind of *Arxula adenivorans* biosensor system expressing the reporter gene for the firefly luciferase, the total test time was significantly reduced without a loss of test sensitivity. Furthermore, the sample volume was scaled down to 80 μ l per well. All assays were developed and optimized for a convenient and simple test procedure.

KEY SPECIFICATIONS

- Assay type: 96 well microplate
- Detection principle: Bioluminescence
- Sample volume: 80 μ l per well
- Sample capacity: 40 (duplicate)
- Total assay time: < 5 h

BENEFITS AT A GLANCE

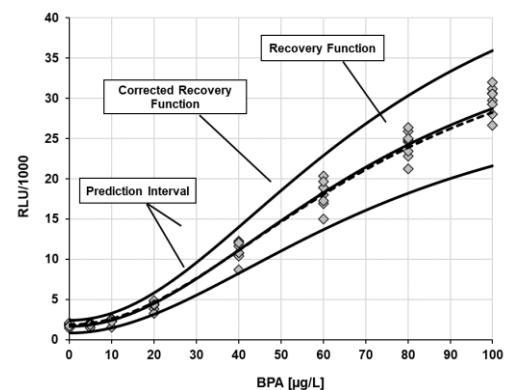
- Quality approved ready-to-use test kits
- No sterile workplace required
- Fast and sustainable test procedure
- Yeast biosensors contain no antibiotic resistance genes
- Automated data evaluation with BioVAL and reporting



VALIDATION

The validation of each assay is performed by a factorial in-house validation study with eight different water samples, including drinking and environmental water. The samples were spiked with different concentrations of the calibration standard. Relevant parameters which effecting the test performance are systematically varied in each study.

The validation is planned and accomplished by QuoData GmbH.



BIOVAL

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

LABORATORY REQUIREMENTS

- BSL1 laboratory
- Incubator + Shaker for microplates (shaker orbit 3.0 – 4.5 mm)
- Microplate reader for luminescence

Soon available: A-YBS^{lumi}, in progress: A-YAS^{lumi}

