Biomarker quantification at femtogram level

Indicia Biotechnology addresses the mutation of the pharmaceutical market and is positioning itself as a CRO specialized for the measurement of protein biomarkers.
Biomarker analysis contributes to diagnose diseases, to evaluate the efficacy and the safety of drug candidates, or to predict the response of patients to medications.
Thanks to a new ultrasensitive immunoassay Erenna® platform* engineered by Singulex, Indicia Biotechnology proposes innovative solutions to drug developers.

By combining paramagnetic microparticles and single-molecule fluorescence detection technologies, the Erenna® Immunoassay system accurately and reliably quantifies biomarkers at sub-picogram levels.

The specific analyte from biological sample is captured and detected by paramagnetic microparticles, and then counted as single-molecule by proprietary algorithm included in the instrument.

MAIN ADVANTAGES

- Very low limit of quantification:
  - Femtogram (10^{-15}g/ml) level measurement
  - Detection of very small changes in biomarker concentrations
  - Analysis of complex biological samples
- Large dynamic range (4+ logs)
- Optimized signal *vs* noise ratio
- 96-well microplate format
- Address unmeet diagnostic needs

A UNIQUE PLATFORM IN EUROPE FOR:

○ **CUSTOM IMMUNOASSAY DEVELOPMENT, optimization and validation**
(answering specific bioindustries needs, like biologics measures for PK studies)

○ **SAMPLE ANALYSIS of Biomarkers**
in sera, plasma, cell lysate, biopsy, supernatant of cell culture
for research, preclinical & clinical studies
with new reagents or current assay menu

○ **EXTENSIVE CURRENT ASSAY MENU**
for sample analysis, covering several disease topics

- CNS
- INFLAMMATION
- ONCOLOGY
- CARDIOVASCULAR
- METABOLIC

***** The Erenna® technology was recognised by the 2009 Frost&Sullivan best practices Award.

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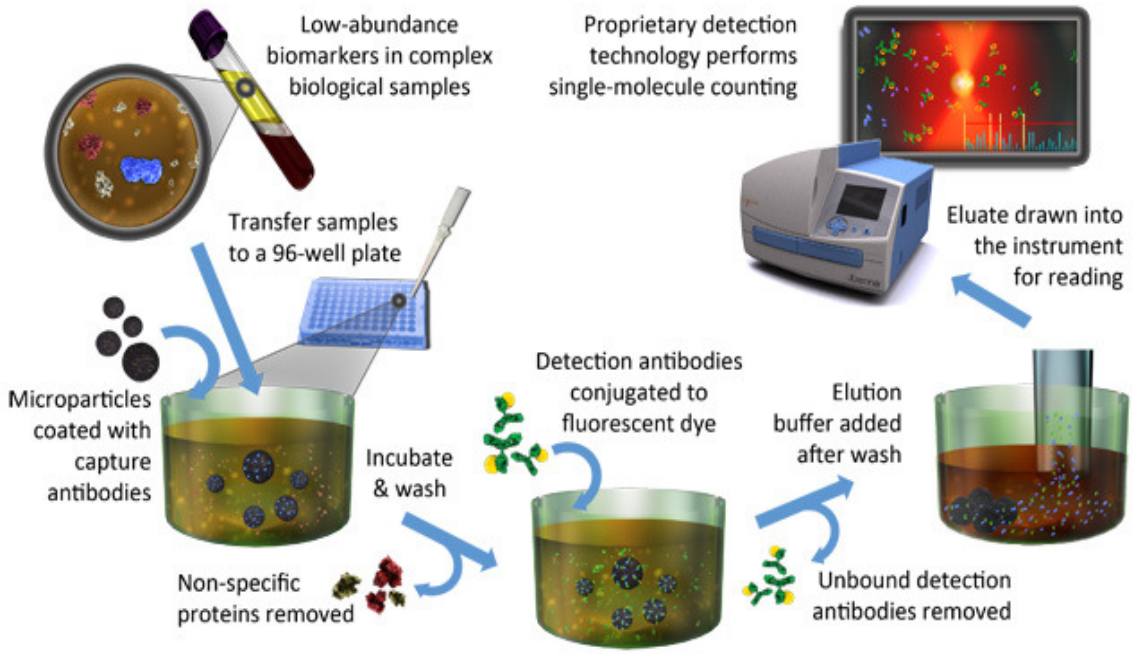
ISO 9001
ISO 13485
BUREAU VERITAS Certification

Accelerating biomarker research with Erenna® technology

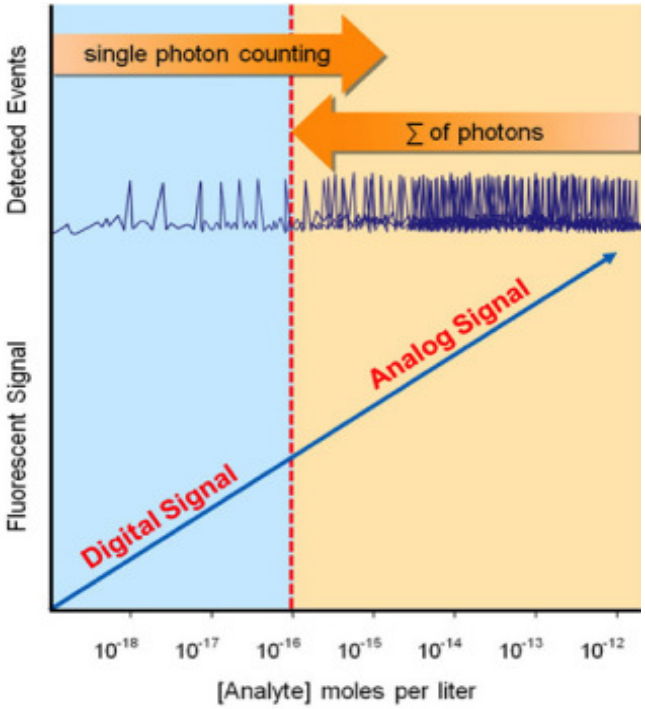
IMMUNOASSAY WORKFLOW



The system integrates capillary flow, laser-induced fluorescence, a highly sensitive detection optics module and a 384-well plate format for sample analysis.

PRECISION AND SENSITIVITY THANKS TO A SINGLE-MOLECULE DETECTION TECHNOLOGY

(outperforming competitive electrochemiluminescence methods)



Ultra-sensitive fluorescence is measured in the presence of proprietary background reduction methodology.

A large dynamic range of **4+ logs** is obtained by combining single-molecule counting (low range) with photon counting (mid range) and total light measurements (high range).

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