Fraunhofer IZI-BB

Our Technology for Your Innovations

TruContact® – Surface Coating for Microtiter Plates

TruContact® is a revolutionary biomimetic polyphenol coating designed for efficient, sustainable immobilization of antibodies, proteins, and small molecules on plastic surfaces. Offering up to 95% reduction in antibody use and enhanced assay sensitivity, it outperforms traditional high-binding polystyrene, making diagnostics faster, more precise, and cost-effective. Crafted from eco-friendly, plant-based materials, TruContact® supports environmentally responsible practices. Both ELISA formats, competitive and sandwich, are faster and more sensitive when utilizing TruContact® surface.

PATENTED

Open for R&D and Licencing

TRL-Level: 7
Patent Number: EP3931567A1

Key Features

- Compliant with food packaging standards
- Outperforms high-binding polystyrene
- Plant-based
- Compatible with most assay formats
- Higher surface/volume efficiency
- Long-term & stable coating

Industries

- Biotech
- Diagnostics
- Medtech

Applications

Assay Technologies

- Premium plates for ELISA assays
- Immunoassays and Aptamer assays
- Automated assays with liquid handling robots
- Lab-on-a-chip systems
- Biosensors and microfluidic chips
- Functionalized membranes
- Microbeads
- Affinity chromatography with disposable resins, membranes and filters

Further information

https://s.fhg.de/IZI-BB-PM-TruContact
https://s.fhg.de/TruContact

www.izi-bb.fraunhofer.de

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