

Smarter Serial Dilutions

Lower Costs. Less Work. Less Waste.



Challenge & Solution

The Challenge

Serial dilution is standard practice in microbiological testing. Manual dilution series are labor-intensive, time-consuming and prone to operator variability. Disposable pre-filled containers can simplify preparation, but they are costly, require storage space and generate substantial plastic waste.

The Solution

The Inlabtec Serial Dilution System combines cost-effective Serial Dilution Bags with automated dispensing and mixing technology.

Samples are pipetted into the dilution bag and automatically homogenized by the Serial Diluter. This enables fast, standardized and reliable sample dilution without changing established laboratory procedures — ideal for accredited laboratories.

Compact and easy to integrate, the system requires minimal bench space, comparable to a vortex mixer and a tube rack.

A smart solution that reduces workload, consumable costs, storage space and plastic waste — designed for fast payback.

Serial Dilution Bags

Purpose-developed for Inlabtec Serial Diluters



See the bags in action



- Sterile and ready-to-use
- Compatible with standard microbiological methods
- Reduce workload compared to standard procedures
- Reduce consumable costs by up to 90%
- Require minimal storage space
- Up to 90% less plastic waste

Serial Diluter UC

Maximum automation for high-throughput labs

The Serial Diluter UC automates the complete dilution workflow for faster, easier and more reproducible routine testing. Smart sensors and guided operation minimize operator intervention.



See the UC in action



- Ideal for around 50+ samples per day
- Automated dispensing and mixing
- Guided workflow with LED user interface
- Reduced operator workload and training requirements

Serial Diluter UA

Cost-effective automation for routine labs

Combines automatic diluent dispensing with integrated bag mixing for efficient and standardized serial dilutions.



See the UA in action



- Ideal for up to around 50 samples per day
- Intuitive, easy operation
- Works with all common diluents
- For ISO 6887-1 decimal dilutions: 1 ml + 9 ml
- Compatible with almost all types of pipettes
- Cost-effective entry into automated serial dilution