

Application Examples – Deepwell- and Microtiterplates

A number of companies have developed robots to specifically handle SBS deepwell- and microplates. These robots may be liquid handlers which aspirate or dispense liquid samples from and to these plates, or "plate movers" which transport them between instruments, plate stackers which store microplates during these processes, plate hotels for longer term storage or microplate incubators to ensure constant temperature during testing.

Instrument companies have designed plate readers which can detect specific biological, chemical or physical events in samples stored in these plates.

Riplate® 384

For applications with small volumes, flat bottom for photometric applications, V-bottom for high sample recovery.

- Clear plates for colorimetric assays and sample storage
- White plates for luminescence and fluorescence assays
- Black plates for fluorescence assays
- High throughput screening

Riplate® medio

Less storage capacity (less than 50% stacking size), new developed conical well permit a good bioturbation, small rims around the wells avoid cross-contamination.

- For storage applications
- Suitable for automated systems

Riplate® 1 ml

The U-shaped well-bottom reduces the death-volume.

- High-throughput screening
- Combinatorial chemistry
- Storage and preparation of essays
- For freezing and defrosting in a microwave (especially riplate® plus 1 ml)
- For mixing steps and collecting elution fractions
- Easy to use with automatic sample handling instruments
- Library applications
- Optimized for applications in cell biology, molecular biology, drug discovery, screening and genomics

Riplate® Square Wells – 2 ml, 5 ml, 10 ml

Alphanumeric marking, suitable for adhesive foils and hot sealing, parallel wells from top to bottom, suitable with current robotic systems.

- Used for applications that require larger sample or reagent volumes
- Used for growing, harvesting or lysing of bacterial cultures
- For collecting elution fractions