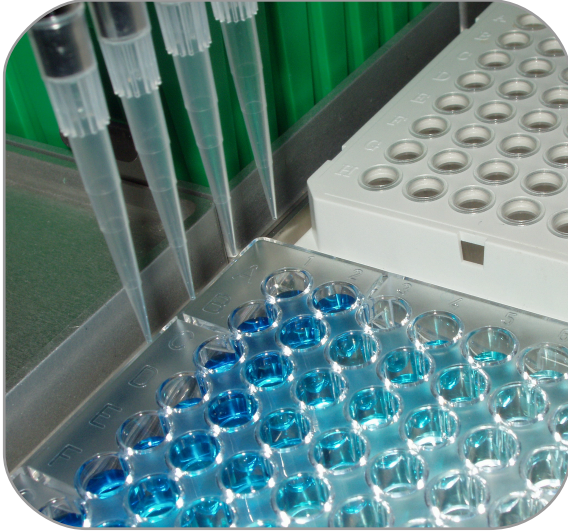


Serial Dilutions on Xiril Robotic Workstations

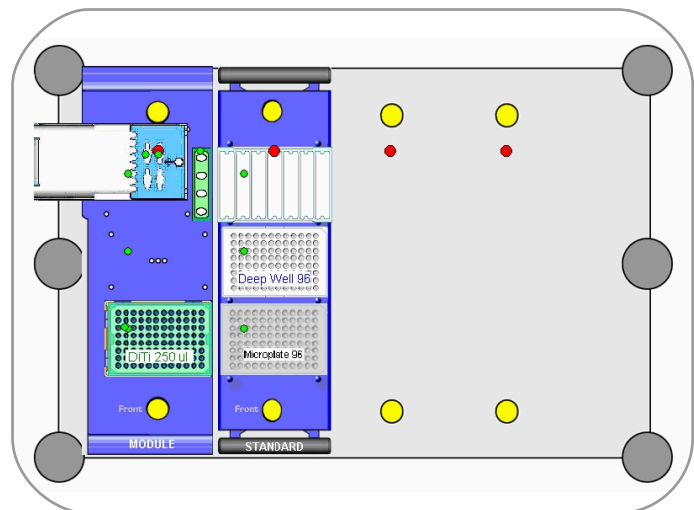


Many applications in Life Science and Diagnostics require certain pipetting patterns that are repeatedly used. One very common pattern is the serial dilution. A typical application is found in pharmaceutical screening processes when substrates need to be diluted from their highly concentrated stock solution to concentrations suitable for the screening assay. Another broadly used application is the distribution of standards on a micro plate to determine concentrations of a substrate or the sensitivity of a test. To achieve reproducible and exact results applications have a very high demand for a superior pipetting quality.

Flexibility and precision ensure optimal pipetting results.

Xiril robotic workstations accurately and quickly perform serial dilutions across 96- or 384-well plates using up to 8 pipetting channels simultaneously. A sophisticated liquid handling ensures homogeneous distribution of samples and precise aliquotting for reproducible results. The Lirix software allows the programming of templates for the serial dilution, pre-dilutions or assay related dilution schemes underlying any arithmetic progression or random pattern. This process can be run as a stand alone application or as part of a more complex automated solution.

- Highest sample uniformity due to optimized mixing procedure
- Any arithmetic progression or random pattern
- Pressure based liquid level detection for all liquids
- Liquid level calculation ensures correct liquid transfers
- Flexible and modular system concept



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