Tecan D300e

Digital Dispenser.

MINIATURIZE YOUR ASSAY
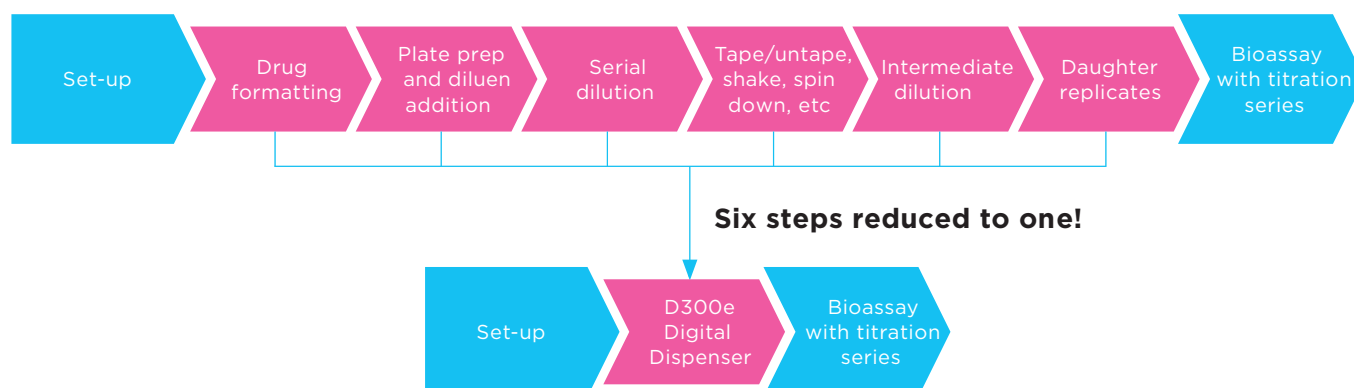
Tecan D300e

Simplify your assay set-up.

Repetitive manual pipetting and tedious serial dilutions for drug discovery assays just became a thing of the past. With Tecan's D300e Digital Dispenser, you can automatically dispense any volume into any well of any assay plate, quickly and easily. Simply add your liquid to the Dispensehead and let the instrument do the rest.

UP TO 90% TIME SAVINGS
- Eliminates multiple steps from your workflow, allowing you to set up and run assays in a fraction of the time.
- Minimizes manual pipetting, enabling scientists to focus on more important tasks and reducing repetitive strain injuries.
- Enhances throughput with simple yet sophisticated software and application-focused wizards.
- Automatically calculates all concentrations and volumes for faster, simpler plate set-up.
- Dispense your reagents directly into your assay plate and onto your cells.

A true innovation in picoliter dispensing, the D300e eliminates up to six steps from your workflow, for unparalleled speed, simplicity, efficiency and productivity.
Streamlining a traditional titration method with the D300e:

Set-up	Drug formatting	Plate prep and diluen addition	Serial dilution	Tape/untape, shake, spin down, etc	Intermediate dilution	Daughter replicates	Bioassay with titration series

Six steps reduced to one!

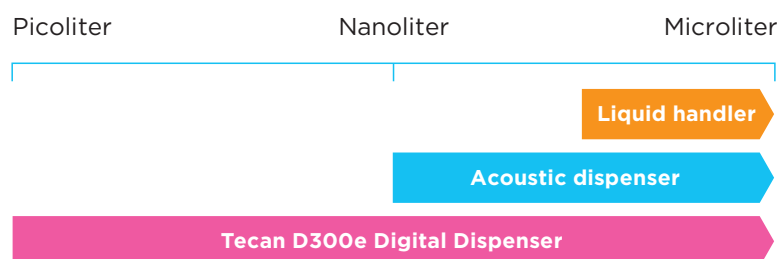| Set-up	D300e Digital Dispenser	Bioassay with titration series

Save time and reagents

SIMPLICITY OF OPERATION
• Clear, intuitive software guides users through every operation, minimizing training times and increasing accessibility.
• Built-in wizards simplify the creation and execution of complex plate layouts.
• Highlighted loading guide identifies the correct pipetting location for faster, simpler and more accurate operation.

AMAZING FLEXIBILITY
• Dispenses DMSO, aqueous fluids (with a surfactant) and PCR master mixes, ideal for applications with large or small molecules.
• Provides accurate dispensing across an extremely wide working range, from 11 pl to 10 µl.
• Offers complete assay flexibility by dispensing any volume into any well of any microplate.

Outstanding dynamic range
With an exceptional dynamic range, the D300e outperforms other dispensing systems and avoids tedious serial dilutions by allowing you to dispense directly into assay plates.

Picoliter	Nanoliter	Microliter

Liquid handler

Acoustic dispenser

Tecan D300e Digital Dispenser

UNPARALLELED CONFIDENCE
• Delivers high quality, reproducible dispensing across multiple users – and even multiple sites – for excellent data quality and fewer repeat experiments.
• Eliminates carry-over and contamination by using non-contact dispensing with disposable Dispenseheads.
• Saves precious samples and reduces costs by minimizing dead volumes.

The perfect tool for reaction set-up.

With DMSO and aqueous* dispensing capabilities, the D300e answers the needs of a broad array of applications across multiple laboratory types. What can it do for you?

Application Area	Task	Description
Proteomics/biopharmaceutical drug discovery	Assay set-up	Dose-response curve preparation for evaluation of new biologics
Genomics	(q)PCR set-up	Low volume dispensing of nucleic acids and master mixes
	Assay set-up	Low volume dispensing of oligonucleotides
Enzymology	Enzyme profiling	Independent titration of enzymes, substrates and inhibitors
Small molecule drug discovery	ADME/mass spec	Adding calibration standards and quality controls
	Cell-based assays	Dose-response set-up directly onto cells
	Biochemical assays	Dose-response set-up directly into assay plates
	Biochemical assays	Low volume dispensing of compounds or antibiotics for synergy experiments
Cosmetics	Ingredient testing	Dose-response set-up for active ingredients

* Aqueous fluids with a surfactant
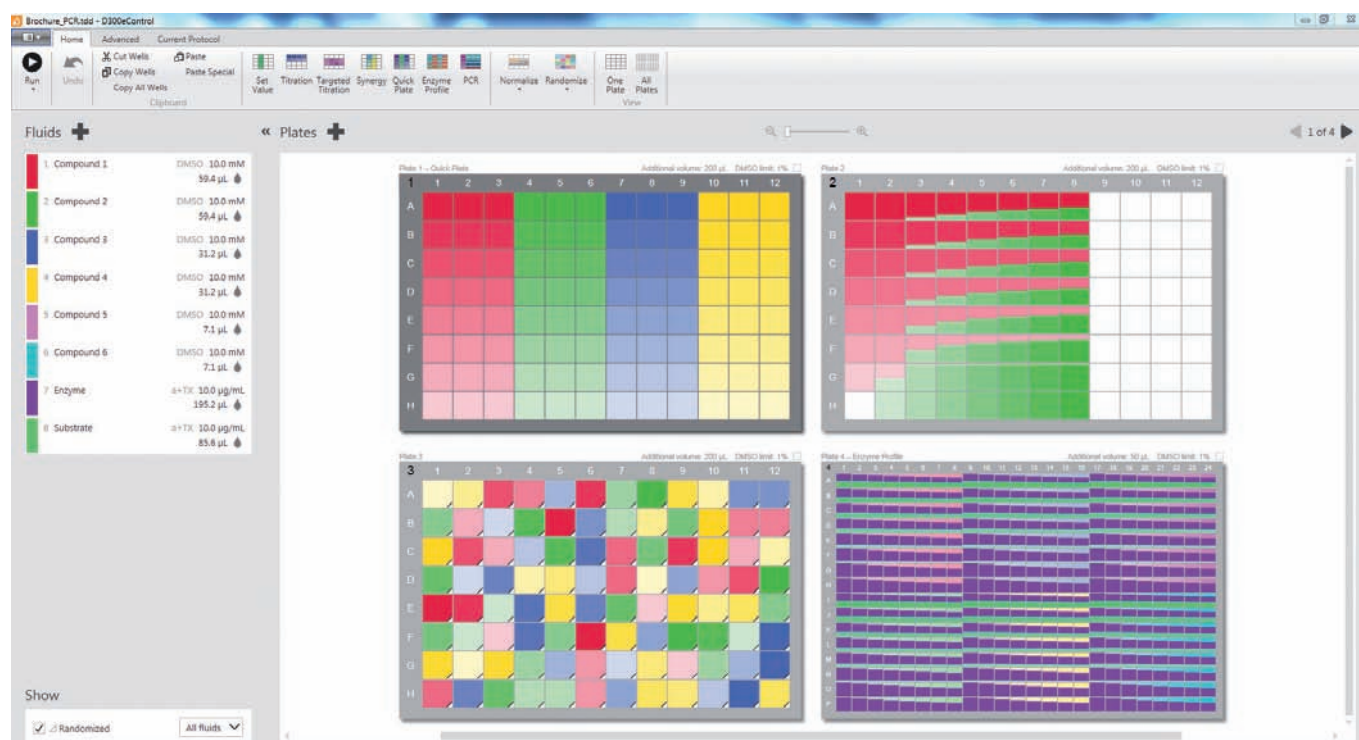
From programming to running, D300eControl software has been designed to streamline every step of the dispensing process for faster, simpler operation and more reliable, reproducible assays.

PROGRAMMING/SET-UP

- Colorful graphics make it easy to design and specify plate layouts.
- Quickly configure your assay format for 12- to 1,536-well microplates.
- Simply enter your desired concentrations, and the software will automatically calculate appropriate volumes – no more manual calculations.
- Avoid edge effects with one-click plate randomization, plus automatic derandomization for analysis.
- Backfill DMSO or other fluids with a single click, for easy normalization across all wells.

Dispense any volume into any well for complete assay flexibility and infinite plate layout options.

Added speed and efficiency – dispensed daily.

The D300eControl Wizards make programming of even complex assays easy for everyone and eliminate the need for super-users.
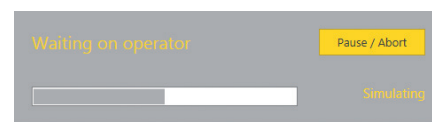
APPLICATION WIZARDS

- **Titration Wizard** for fast and convenient set-up of dilution curves.
- **Synergy Wizard** for combination screening of two or more compounds.
- **Enzyme Wizard** makes even the most complex experiments routine.
- **PCR Wizard** to miniaturize your (q)PCR reactions, saving samples and reagents.
- **Predefined fluid classes** eliminate set-up work and ensure precise, accurate results every time.

RUN TIME

- **Summary Review** allows you to double-check your run before it starts.
- **Simulation Mode** helps to identify any programming errors prior to a run, eliminating wasted time and materials.
- **Real-time display** of actual load volumes ensures greater accuracy and confidence.

Loading guide identifies the correct pipetting location, walking users through the loading process for faster, simpler, more accurate operation.

Waiting on operator — Pause / Abort — Simulating

③ Fluid 3 (DMSO 10.0 mM) — 3.1 µL
Filled (Enter) — Skip

PCR set-up made easy

PCR Wizard for easy and intuitive set up of (q)PCR reactions.
Create your plate layout in just 4 guided steps.

1. Specify Fluids Master Mix Primers Samples

2. Enter Volumes or Concentrations

3. Specify Standard Curve if needed

4. Determine Layout clicking through several options allows the user to select the desired set up

5. Run your experiment

Small Volumes
Great Results.

For research use only – not for use in diagnostic procedures.

Nous contacter

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