Accelerate 384-Well Pipetting

How you can save 70% of your valuable time loading 384-well plates manually

eppendorf

Abstract

With the advent of the high-throughput screening approach, which is widely used in the pharmaceutical industry, the need for a microplate with a larger number of wells arose. The 384-well microplate was then developed and implemented as a consumable for drug development assays.

The manual transfer of 384 samples is relatively time-consuming, especially when samples from reaction vessels of another vessel format, e.g. 1.5/2.0mL reaction tubes, are transferred to 384-well plates. In industry, however, maximum efficiency is essential in addition to maximum precision and sample safety.

In this overview, we give you helpful tips and tricks for a maximum acceleration of your workflow when manually filling 384-well plates.



<u> Tip 1a: Distribute liquid medium – 24 at once</u>

The distribution of liquid medium into

24-channel pipettes.

Tip 1b: Distribute liquid medium – with electronic pipettes in dispensing mode

With electronic pipettes, the distribution of liquid medium into 384-well plates can be even further accelerated.

compared to 8/12-channel pipettes.

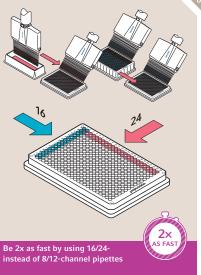
>Example: If 25µL volume per well are dispensed with a 100µL electronic 16/24-channel pipette,

up to 80% time-saving savings can be achieved

> Ideally, use 24-channel pipettes to distribute master-mix, buffer or medium in 384-well plates > About 50% time-saving with 16/24-channel

384-well plates can be accelerated with 16- and

compared to 8/12-channel pipettes





Be even 5x as fast as with 8/12-channel pipettes by dispensing with electronic 24-channel pipettes



pipettes



Tip 2: Move multiple samples simultaneously from one vessel format to another

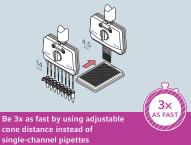
Instead of pipetting 384 times, transfer up to

> Ideally, use 12-channel adjustable cone distance

pipettes to move samples from 96-well plates and save up to 70% time compared to single-channel

12 samples at a time into a 384-well plate.

>Ideally, use 8-channel adjustable cone distance pipettes to move samples from 1.5/2.0mL tubes to 384-well plates and save up to 64% time compared to single-channel pipettes



Eppendorf solutions Further information as well as the possibility to request a demo is available from Eppendorf under the links shown here:



- Get the maximum out Here, the most efficient way to manually fill a 384-well plate is the combination of
- 1.: A 24-channel electronic pipette for loading the reaction liquid
- 2.: Multichannel pipette with adjustable tip spacing for transferring individual samples

UP TO

Both combined, saves you up to 70% time.



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