



Liquid Handling Station



PRODUCT
INFORMATION

BRAND Liquid Handling Station

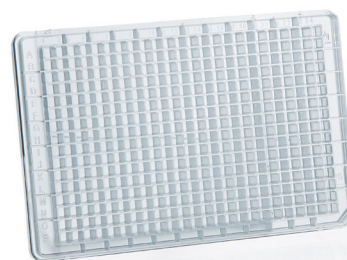
Contamination-free, automatic pipetting into 384-well microplates with the BRAND Liquid Handling Station

Introduction

With the BRAND Liquid Handling Station (LHS), a wide variety of everyday laboratory tasks can be performed automatically, with accurate results. Manually pipetting into 384-well microplates, as is common in high-throughput screening (HTS), is easily susceptible to errors and contamination. The objective of this technical note is to determine the contamination risk for pipetting into a 384-well microplate with the LHS. A common method used to establish this risk is to pipette a measuring solution into a microplate in a checkerboard pattern. Because the measuring solution is missing in every second well, contamination between wells can be measured.

Material and method

Every second well of a 384-well microplate (Cat. No. 781620), beginning with Well A2, is filled in checkerboard pattern with 50 μ l of a 1.5% solution of the food coloring Patent Blue V (E131). Next, each empty well is filled with 50 μ l of fully deionized (DI) water. The pipetting procedure is carried out once with the 50 μ l single-channel liquid end (SC LE) and once with the 50 μ l multi-channel liquid end (MC LE). In addition, in another plate, each well is filled with 50 μ l of DI water. This plate serves as the negative control. The absorption of all plates is then measured in the Nanoquant Infinite M200 Pro from Tecan at 640 nm. Based on the signal strengths in the wells, in which only DI water had been pipetted, it can then be determined if contamination of the food coloring has taken place.



384-well microplate (781620)

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