

Vale HP 96

Vale High Performance 96 providing solutions to “edge effect”

User Guide

About the Vale High Performance 96 (VHP 96)

The Vale High Performance 96 has been created to provide a simple, effective 96-well microplate that saves time and money and improves the reproducibility of experiments.

Engineered to help eliminate evaporative edge-effect, the patented design features a no-spill format with inter-well spaces which provide unprecedented well-to-well protection against evaporation.



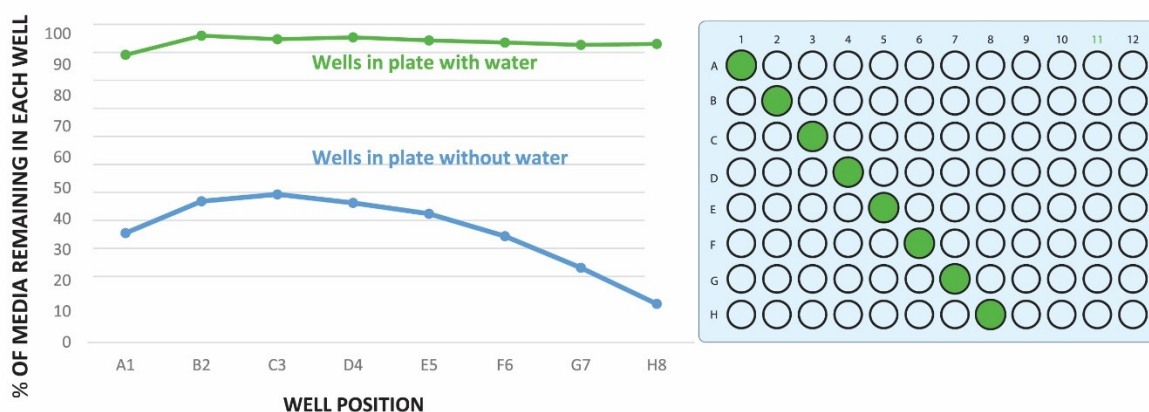
Filling the microplate with liquid helps to ensure that edge effect caused by evaporation is greatly reduced. The high capacity inter-well cavities make it easy to fill the microplate and it only needs to be filled once to achieve results.

The unique anti-spill design of the microplate means that it can be easily used without fear of the liquid spilling from the inter-well reservoirs.

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Advantages of using the Vale High Performance 96 microplate with water

The Vale High Performance 96 microplate, when filled with water, prevents evaporation, even in the most extreme conditions, resulting in minimum media loss and high consistency across wells, as illustrated below.



Media loss due to evaporation was compared in plates with and without water in the inter-well cavity. Microplates were sealed in a Drying Capsule@ 40°C (+/- 3°C) for 48 hours and the percentage of liquid remaining in wells A1 to H8 (as shown in the above diagram) was measured. Data shows that there is minimal evaporation of the media in the wells in the water-filled microplate compared to the dry plate.

Instructions for preparing and filling microplate:

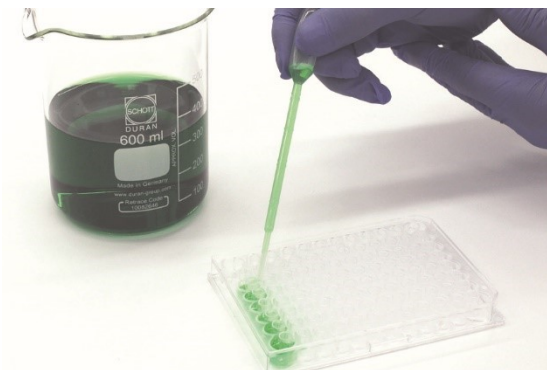
Supplied Equipment

Vale High Performance microplate (Catalogue Number: VHP96 xx).

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1. Place 300 mL purified water in a beaker. (If intending to use immediately the ideal water temperature is 37° C).
2. Using Pasteur pipette, carefully add non-toxic tracking dye to water such as food colouring.
3. Gently stir to mix



4. Carefully fill the pipette with water dye mixture.
5. Take the Vale High Performance 96 microplate and carefully place the dye & water mixture into the inter-well cavity beginning with the outside edges. Only fill to the top of the inter-well cavity so that you avoid buffer fluid entering the wells.
6. After filling the inter-well cavities on the outside edge, carefully fill the inner inter-well cavities. (Each microplate required approximately 27-30ml of liquid.) The microplate is then ready to use.

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Safety warnings and precautions

For research use only.

Not recommended or intended for diagnosis of disease in humans or animals.

Do not use internally or externally in humans or animals.

All chemicals should be considered as potentially hazardous. We therefore recommend this product be handled only by persons trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice. Wear suitable protective clothing such as laboratory overalls, safety glasses and gloves. Care should be taken to avoid contact with skin or eyes. In the case of contact with skin or eyes wash immediately with water. See material safety data sheet(s) and/or safety statement(s) for specific advice.