

TechDoc for Water Drop Test on TPP® Tissue Culture Vessels

TPP tissue culture vessels are for the cultivation and growth of cells, as well as for photometric measurements and cell-based assays. The growth areas, but not the sidewalls of the vessels, are opto-mechanically activated for optimal cell adhesion and growth.

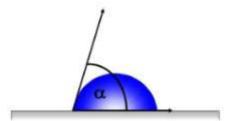
The simple water drop test allows to quickly determine if the surface treatment is intact. This can be an exclusion criterion or an indication of poor cell growth in a particular well or wells.

Technical Data:

Material Polystyrene (PS)

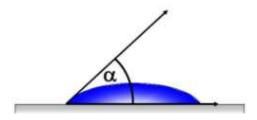
Untreated growth area is:

- hydrophobic
- repels the water droplet
- contact angle (α) is large
- low to poor adhesiveness for cells

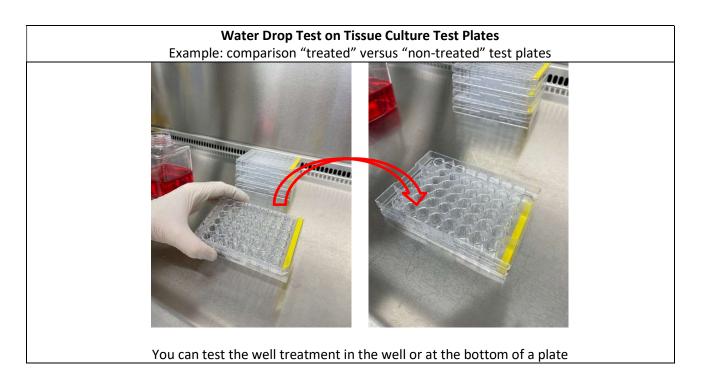


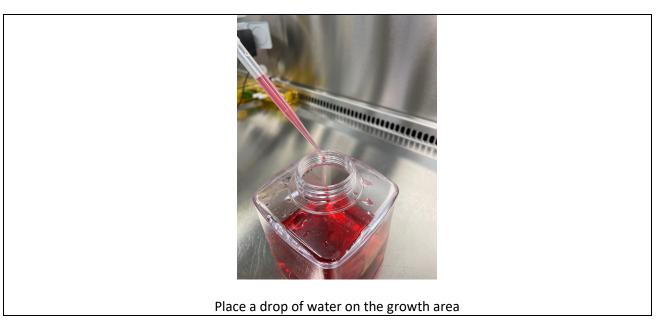
Treated growth surface is:

- hydrophilic
- water droplet sprawls
- contact angle (α) is small
- excellent adhesiveness for cells

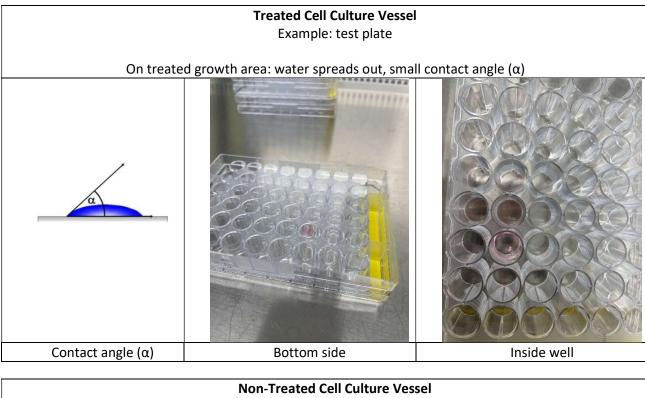






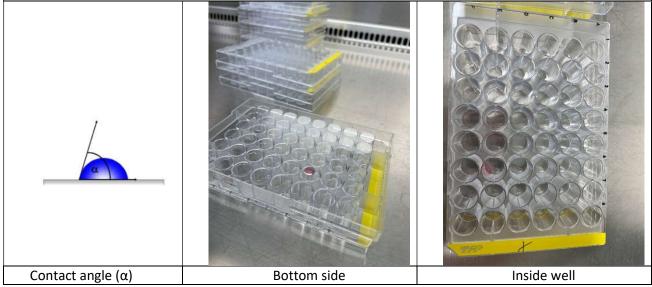






Example: test plate

On untreated growth area: water spreads out, large contact angle (α)



Conclusion: A simple and quick test to check for the presence of surface treatment in a vessel.

- 1. Perfect surface treatment: water drop spreads out, small contact angle.
- 2. Poor to untreated: water forms drops, large contact angle.

Source: TPP



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