

## HoloMonitor® App Suite

# Cell Quality Control

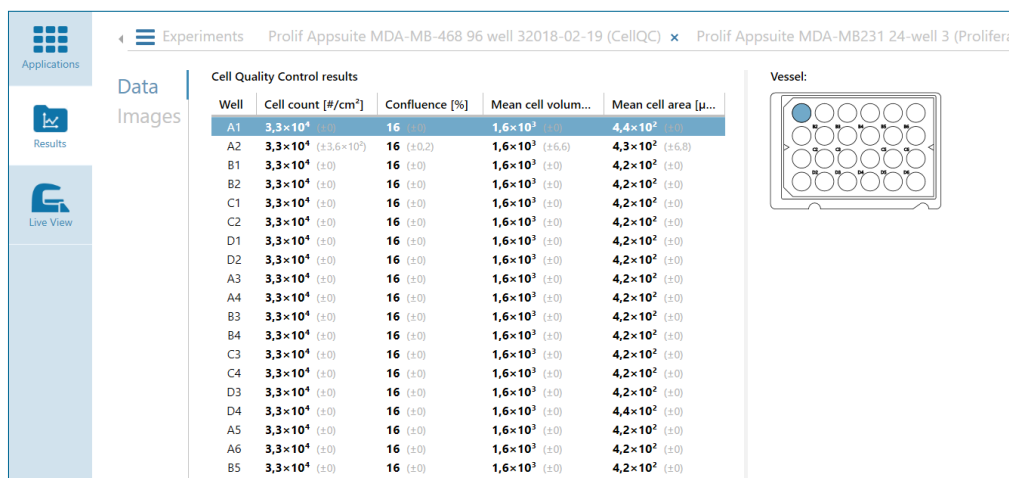
It is well known that when cells are cultured over longer or shorter time periods they may undergo morphological changes. Quick assessment of the quality of a cell culture prior to experiments may therefore be useful to avoid unexpected or inferior results.

### DESCRIPTION

The HoloMonitor® Cell QC Assay presents end-point data on a cell population level in terms of basic morphology, cell count and cell confluence. The assay can be used to ensure that the cells are viable and cell count and/or confluence is appropriate at the start of an experiment. It can also be used as a tool to detect undesired morphological changes in your cell culture when compared to previous experiments.

### HOLOMONITOR APP SUITE

HoloMonitor® App Suite is a completely new proprietary software for analysis of images and data generated by the HoloMonitor® M4 base unit. HoloMonitor® App Suite focuses on biological applications and enables researchers within all levels of cell biology to easily perform live-cell studies on various cellular events.



Well	Cell count [#/cm <sup>2</sup> ]	Confluence [%]	Mean cell volum...	Mean cell area [μ...
A1	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,4 × 10 <sup>2</sup> (±0)
A2	3,3 × 10 <sup>4</sup> (±3,6 × 10 <sup>2</sup> )	16 (±0,2)	1,6 × 10 <sup>3</sup> (±6,6)	4,3 × 10 <sup>2</sup> (±6,8)
B1	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
B2	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
C1	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
C2	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
D1	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
D2	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
A3	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
A4	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
B3	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
B4	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
C3	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
C4	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
D3	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
D4	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,4 × 10 <sup>2</sup> (±0)
A5	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
A6	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)
B5	3,3 × 10 <sup>4</sup> (±0)	16 (±0)	1,6 × 10 <sup>3</sup> (±0)	4,2 × 10 <sup>2</sup> (±0)

### Output - End-point data given as values/well

- Cell area (μm<sup>2</sup>)
- Mean cell volume (μm<sup>3</sup>)
- Cell count (no of cells/well)
- Cell confluence (% cell covered area)

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