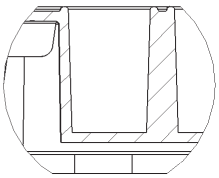
Technical Note

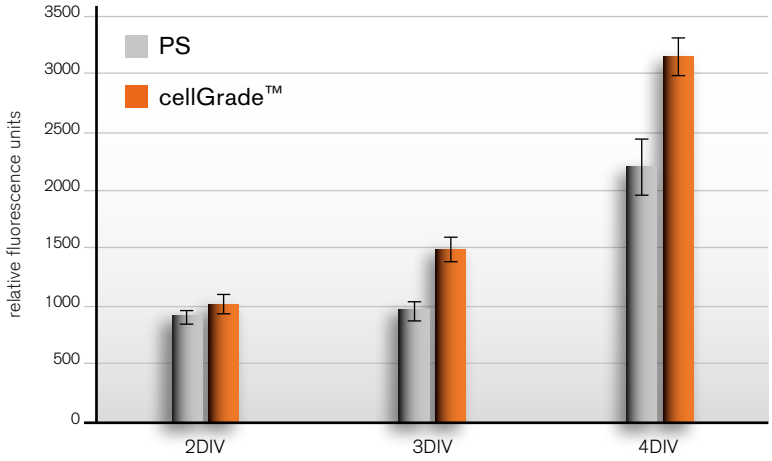
Proliferation of HeLa cells on BRAND*plates*® cellGrade™ surface

Culture conditions

For each experiment HeLa cells were seeded at a density of 6000 cells/cm² in wells of transparent 96-well F-bottom BRAND*plates*® and cultivated in DMEM medium containing 7 % FCS at 37° C, 95% relative humidity and 5 % CO_2.



A



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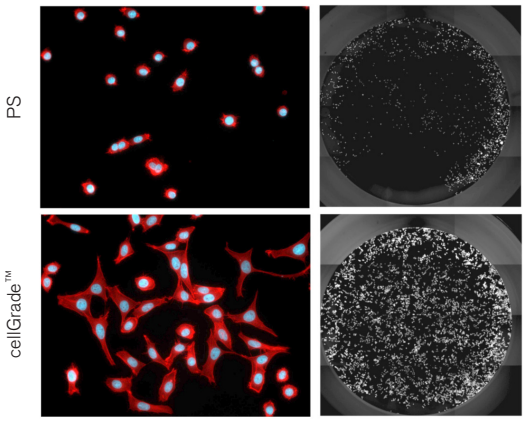

A Metabolic activity measured by resazurin-resafurin turn over is used for relative quantification of cell numbers after 2, 3 and 4 days post seeding. HeLa cells were incubated in presence of 50 µM resazurin for 3 hours prior to fluorescence measurement (Ex 506 nm/Em 635 nm) in a plate reader (GeminiEM Modelcular Devices). HeLa cells cultivated on BRAND*plates*® cellGrade™ show higher fluorescence signals indicating higher cell numbers after 3 and 4 days in vitro (DIV) when compared to non-treated microplates (PS). Resafurin fluorescence measured in cell-free wells was used for background correction. Data represent mean and standard deviation of 8 measurements.

B HeLa cells cultivated on cellGrade™ treated microplates develop larger contact areas shown by phalloidin-TRITC staining (F-Actin) when compared to non treated PS surface. Whole well scans demonstrate homogenous cell growth and better retention of HeLa cells after crystal violet staining procedure.

Conclusion

BRAND*plates*® with cellGrade™ surface optimally support attachment and proliferation of HeLa cells.

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