

Novel cell culture flasks improving the cultivation of embryonic stem cells

Frickenhausen – At the SBS Conference and Exhibition in Orlando, Florida, from 27 to 31 March 2011, Greiner Bio-One introduces cell culture flasks with a new polymer modification. This completes the company's Advanced TC product portfolio, which already includes dishes, multiwell plates and microplates. The innovative polymer modification changes the surface of cell culture vessels to improve cultivation of demanding cells and has a positive impact on their function and properties. This makes the surface ideal for cultivating embryonic stem cells.

New cell culture vessels with specially modified surfaces can make cell-based analytical methods more reliable and can have a positive effect on cell functionality. To successfully cultivate demanding cells such as primary and sensitive cells or cells subject to restrictive growth conditions, it is necessary to mimic their specific in vivo conditions as precisely as possible. The new innovative Advanced TC polymer modification offers this possibility: It alters the surface of cell culture vessels in a way that optimises both primary and long-term cell adhesion as well as the function and properties of cells. In comparison to conventional cell culture products Advanced TC products maximise cell yield by combining consistent and uniform cell adhesion with homogeneous cell growth. Based on their special features, the effectiveness of Advanced TC cell culture vessels is comparable to that of a biological surface in many applications. In contrast to biologically coated products Advanced TC cell culture vessels have a longer shelf life and can be transported and stored at room temperature. Internal studies that are due to be published this year have shown that the polymer-modified surface is excellent for cultivating embryonic stem cells.

Advanced TC™ is a Greiner Bio-One GmbH product line.

Greiner Bio-One GmbH – BioScience Division

Greiner Bio-One is specialised in the development, production and distribution of plastic laboratory equipment. The company is technology partner for universities, research institutes and the diagnostic, pharmaceutical and biotechnology industries as well. With the **BioScience division**, Greiner Bio-One ranks among the leading providers of specialised products for the cultivation and analysis of cell and tissue cultures, as well as microplates for high-throughput screening, allowing industry and research most rapid and efficient drug screening. Additionally Greiner Bio-One develops innovative biochip technologies for genotyping. Under the management of Heinz Schmid, the German headquarters of the BioScience division in Frickenhausen (Baden-Württemberg) controls the whole research and development activities in the product ranges Cell Culture, High-Throughput Screening, Biochips and OEM.

Greiner Bio-One GmbH is a division of Greiner Bio-One International AG, based in Kremsmuenster (Austria). Today Greiner Bio-One International AG generates a turnover of 278.6 million Euro. It has over 1,500 employees and operates globally with 19 own subsidiaries and numerous distributors in more than 100 countries.

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