

PRESS RELEASE

Novel Cell Cultivation Flask ..

Available from **INTEGRA Biosciences** (www.integra-biosciences.com) the **CELLine disposable flask bioreactor**, harnesses membrane technology, to deliver real benefits for scientists involved with cell cultivation. The system, which guarantees high cell densities, is easy to use for recombinant protein expression and high yield monoclonal antibody production.

Monoclonal antibodies (MAbs) are becoming increasingly important as research tools. The primary methods available to generate research quantities of MAbs (10 mg to 500 mg) are static tissue culture, spinner or roller systems, and ascites fluid from mice. As demand for MAbs has increased, so has the pressure to develop alternative *in vitro* production methods that will reduce animal use, streamline downstream processing, and reduce variability in production runs. The effort to develop a production method that meets these emerging requirements culminated in the CELLine, a novel, membrane-based disposable cell cultivation system.

The CELLine yields antibody concentrations comparable to that of ascites. One CELLine flask can be used to produce as much antibody as 12 mice. The harvest volumes also result in antibody concentrations 50 to 100 times higher than both roller bottles and tissue culture flasks. Average yields of monoclonal antibodies range from 1 to 5 mg/ml even over extended periods of time. Using MAb media in a CELLine, antibody yields average between 30 to 150 mg of antibody every two weeks.

The CELLine has been designed to bring considerable cost savings to cell cultivation. The novel bioreactor drastically reduces the need for high capital investments in cell culture instrumentation or handling large amounts of cell culture disposables in order to be able to obtain milligram amounts of a designated protein. High production yields together with a 95% reduction in media supplement requirements enable further cost and time-savings in downstream processing steps.

Illustrative Image:



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