

Press Release

March 12 2019



FUJIFILM Irvine Scientific Introduces Low Hydrolysate Medium For Insect Cell Expression Systems

SANTA ANA, California, March 12, 2019: FUJIFILM Irvine Scientific, Inc., a world leader in the optimization and manufacture of cell culture media, today announced the introduction of IS Sf Insect medium. The serum-free, animal component-free, low hydrolysate medium is formulated for scalability for the consistent growth and yields of proteins, viral vectors and viral-like particles using baculovirus expression systems (BEVS), in Sf9 and Sf21 cells.

There is increasing interest in using insect cells as production hosts for recombinant proteins and viral vectors. Used in conjunction with the BEVS, insect cells are able to produce large quantities of proteins with complex post-translational modifications in short time-frames. These insect cells readily adapt to high-density culture and this feature, coupled with their high yields, makes these cells ideal for large-scale expression.

Yeast hydrolysate is commonly used as a nutritional supplement in insect cell culture, but there are major concerns about the inconsistent performance of cultures. There can be significant differences in growth and protein production between hydrolysate batches whereas the serum-free, low hydrolysate formula of IS Sf Insect provides less batch variation and more consistent growth and protein yields.

“Insect cell expression systems are appealing because of their suitability for large-scale, high density cell culture, and ability to produce high yields of recombinant proteins and viral vectors. However, the current practice of using undefined serum and high concentrations of hydrolysates as supplements results in significant variability between media lots and production runs.

FUJIFILM Irvine Scientific has developed an advanced formula that delivers high viable cell density and production, without the risks and variability of serum and high concentrations of hydrolysates”, said Dr Robert Newman, chief scientific officer at FUJIFILM Irvine Scientific.

IS Sf Insect complete, ready-to-use medium supports high, viable cell density growth and protein yields in baculovirus expression systems at small and large-scale. It is available off-the-shelf or in custom sizes and packaging on request.

ENDS



Photo: IS Sf Insect medium

For high-res image contact lorna.cuddon@zymecommunications.com

Notes to Editors

About FUJIFILM

FUJIFILM Irvine Scientific <http://www.irvinesci.com>

FUJIFILM Irvine Scientific, Inc., is a worldwide leader in the innovation and manufacture of cell culture media, reagents, and medical devices for researchers and clinicians. The company provides unrivaled service and quality to scientists working in biopharmaceuticals, cell therapy and regenerative medicine, assisted reproductive technology and cytogenetics, and industrial cell culture for the large-scale production of biotherapeutics and vaccines. FUJIFILM Irvine Scientific adheres to both ISO and FDA regulations and operates dual cGMP manufacturing facilities in California, USA, and Tokyo, Japan. The company's consultative philosophy combined with expertise in cell culture and compliance provides customers with unique capabilities and support. For over 45 years, FUJIFILM Irvine Scientific has remained uniquely flexible and focused on media while becoming a strategic global leader in media products and

services. FUJIFILM Irvine Scientific, Inc. is a subsidiary of FUJIFILM Holdings America Corporation reporting to FUJIFILM Holdings Corporation.

FUJIFILM Holdings Corporation www.fujifilmholdings.com

FUJIFILM Holdings Corporation, Tokyo, Japan brings cutting-edge solutions to a broad range of global industries by leveraging its depth of knowledge and fundamental technologies developed in its relentless pursuit of innovation. Its proprietary core technologies contribute to the various fields including healthcare, graphic systems, highly functional materials, optical devices, digital imaging and document products. These products and services are based on its extensive portfolio of chemical, mechanical, optical, electronic and imaging technologies. For the year ended March 31, 2018, the company had global revenues of \$23.0 billion, at an exchange rate of 106 yen to the dollar. Fujifilm is committed to environmental stewardship and good corporate citizenship. For more information, please visit www.fujifilmholdings.com.

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