



### Colony Counting and Zone Measurement System

The ProtoCOL 3 HD from Synbiosis is an automated colony-counting and zone measurement system that provides accurate, traceable results for vaccine and antibiotic development. It features a compact, light-tight cabinet, housing patented, three-color LED lighting and an ultra-high-definition 5-megapixel CCD camera integrated to user-friendly software. At the press of a button, this new system allows microbiologists to automatically read plates of up to 150-mm diameter, to detect colonies

as small as 43  $\mu\text{m}$ , and to measure zones with an average accuracy of more than 99.9%. The software includes, as standard, an inhibition zone measurement module to measure the diameter of inhibition zones for applications, including single radial immunodiffusion (SRD), and a pour plate module for counting colonies on pour, settle, and spread plates. All data generated can be easily exported into a spreadsheet (Excel/OpenOffice), or to the optional UNISTAT statistics package for analysis, or transferred to a laboratory information management system (LIMS).

[Synbiosis](http://Synbiosis)

For info: +44-(0)-1223-727125

[www.synbiosis.com](http://www.synbiosis.com)

### Nucleic Acid Stain

GoodView is a safer alternative to the traditional ethidium bromide stain for detecting nucleic acid in agarose gels. It emits green fluorescence when bound to DNA or RNA. This new stain has two fluorescence excitation maxima when bound to nucleic acid, one centered at 268 nm and another at 294 nm. In addition, it has one visible excitation at 491 nm. The fluorescence emission of GoodView bound to DNA is centered at 530 nm. The test report from the Institute for Environmental Health and Related Product Safety of the Chinese Center for Disease Control and Prevention concludes that it is nontoxic and nonmutagenic.

[Beijing SBS Genetech](http://Beijing SBS Genetech)

For info: +86-10-82784292

[www.sbsbio.com/news/englishnew/index.php](http://www.sbsbio.com/news/englishnew/index.php)

### NMR and EPR Explosion Protection Chamber

The NMR and EPR Explosion Protection Chamber by Wilmad-LabGlass-SP Scienceware shields researchers from flying debris and brings a new level of safety to the laboratory. High-pressure experiments have significantly grown in popularity over the last several years. As a result, the risk of tube explosion in the laboratory has also increased. The Explosion Protection Chamber solves this safety issue by preventing debris from projecting sideways toward the researcher should an explosion occur. Its one-size-fits-all design allows the chamber to be assembled in double-barrel mode for Bruker spectrometers or single-barrel mode for Varian/Agilent and JEOL spectrometers. The modular leg array ensures that the product fits securely against the upper barrel protruding from the magnet.

[Wilmad-LabGlass-SP Scienceware](http://Wilmad-LabGlass-SP Scienceware)

For info: 800-220-5171

[www.wilmad-labglass.com](http://www.wilmad-labglass.com)

### Anti-Glycan IgG mAbs

GlycoNex has developed and optimized a serum-free Chinese hamster ovary (CHO) platform to produce anti-glycan immunoglobulin G (IgG) monoclonal antibodies (mAbs) with remarkable purity, specificity, and affinity for glycan research. Outcompeting antibodies from hybridoma or ascites systems, GlycoBind consistently delivers accurate and precise data from Western blot, immunohistochemistry, and flow cytometry experiments by eliminating animal-serum/material contamination, unspecific antibodies, and lot-to-lot variation. More than 50 anti-glycan mAbs are coming soon. Tell us your explicit needs and pain points in dealing with ambiguous and irreproducible data. GlycoNex is willing to make your research and life easier.

[GlycoNex](http://GlycoNex)

For info: +886-2-2697-4168

[www.glyconex.com.tw/products-1.php?lang=en](http://www.glyconex.com.tw/products-1.php?lang=en)

### Activator Cell Line for Immune Checkpoint Therapy Research

AMS Biotechnology (AMS BIO) offers a comprehensive range of purified, soluble immunoreceptors and proteins involved in key immunosignaling pathways, such as PD-1, PD-L1, PD-L2, CTLA-4, TIGIT, LAG-3, and IDO. Additionally, the company offers several cell lines (e.g., PD-L2/TCR Activator-CHO Recombinant Cell Line) and assay kits that can be used to screen for inhibitors of protein-protein interaction, as well as neutralizing antibodies to serve as positive controls for inhibition. The binding of programmed cell death protein 1 (PD-1), a receptor expressed on activated T cells, to its ligands, PD-L1 and PD-L2, negatively regulates immune responses. PD-1 ligands are found on most cancers, and PD-1/PD-L2 interaction inhibits T-cell activity and allows cancer cells to escape immune surveillance. The PD-1:PD-L1/L2 pathway is also involved in regulating autoimmune responses, making these proteins promising therapeutic targets for multiple sclerosis, arthritis, lupus, and type 1 diabetes.

[AMS Biotechnology](http://AMS Biotechnology)

For info: 617-945-5033

[www.amsbio.com/immunotherapy.aspx](http://www.amsbio.com/immunotherapy.aspx)

### Back-Illuminated sCMOS Camera Platform

Featuring 95% quantum efficiency and market-leading vacuum cooling down to  $-45^{\circ}\text{C}$ , the Sona back-illuminated camera platform for fluorescence microscopy represents the ultimate in sensitivity for scientific complementary metal-oxide semiconductor (sCMOS) cameras. Sona is available in two formats, each with an 11- $\mu\text{m}$  pixel size. The 4.2-megapixel flagship model, Sona 4.2B-11, enables access to the entire  $2048 \times 2048$  array, offering a 32-mm sensor diagonal and harnessing the entire field of view (FOV) available from the microscope. This model is adaptable to a range of objective lens magnifications, from 100X down to 40X. It is perfect for applications that require maximum information content, allowing large fields of cells, whole embryos, or tissue cultures to be captured with absolute clarity and maximum throughput. The Sona 2.0B-11 model features a 2-megapixel array, sized to maximize the FOV available through modern 22-mm C-mount microscope ports. Preconfigured and easily accessible regions of interest (ROIs) directly match to various smaller microscope port sizes, making the Sona 2.0B-11 usable across multiple setups.

[Andor Technology](http://Andor Technology)

For info: 847-212-0500

[andor.oxinst.com/products/fast-and-sensitive-scmos-cameras](http://andor.oxinst.com/products/fast-and-sensitive-scmos-cameras)

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# Science

## New Products

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