



### Copper Incubator Accessories

An accessory set for the BINDER Series C CO<sub>2</sub> incubators includes three copper shelves and a copper water pan. As the pan always contains water, and the shelves directly contact incubating

cell culture vessels, they can pose contamination risks. Combined with BINDER's 180°C hot-air sterilization cycle and humidity management, these accessories provide an added level of contamination control. Copper ions have a demonstrable biocidal effect and resist the growth of most contaminants, eliminating a potential source of cross-contamination should any culture medium spill on the shelves. Using copper for the water pan prevents contaminating growth in the humidification water. The copper equipment reduces the time and effort required for cleaning the incubator while further ensuring a high level of contamination resistance.

#### BINDER

For info: +49-(0)-7462-2005-0  
www.binder-world.com/us

### Neuronal Culture System

The Gibco B-27 Plus Neuronal Culture System, consisting of B-27 Plus Supplement and Neurobasal Plus Medium, allows neurobiology researchers to replace current neuronal cell culture supplements and basal media, so they can maximize survival of neurons in short- and long-term cultures without having to change workflows. For researchers who are either maintaining primary rodent and human pluripotent stem cell (hPSC)-derived neurons or differentiating hPSC-derived neural stem cells to neurons, the combination of Gibco B-27 Plus Supplement, Neurobasal Plus Medium, and CultureOne Supplement removes the challenges of culturing neurons and enables an improved downstream experience.

#### Thermo Fisher Scientific

For info: 866-356-0354  
www.thermofisher.com/b27plus

### Plate Washer

The DA-Cell system from Curiox BioSystems features a unique 96-well plate and washer that uses gravity and laminar flow to wash your cells in 2–4 min. The system is fully automated and operator independent, helping you attain more consistent results. It lets you achieve more than 95% cell retention, even after multiple washes of permeabilized cells. The DA-Cell technology enables you to work with a 96-droplet-based format instead of a conventional microwell plate. It also helps you to prepare samples for multicolor flow cytometry and bypasses the need for centrifugation and washing of suspension cells.

#### Curiox BioSystems

For info: 650-226-8420  
www.curiox.com

### Virus Production Media

Serum and di- and tripeptide plant-derived hydrolysates can cause variability in cell expansion, hindering viral replication, and ultimately reducing the productivity of the cell culture system. Therefore, media with undefined components can increase the time and resources required to manufacture a vaccine. OptiVERO is a chemically defined, blood- and plant hydrolysate-free cell culture media for vaccine manufacturing that outperforms popular VERO media. Unrefined components are replaced with pure and biologically active recombinant human transferrin and albumin to formulate a chemically defined media optimized specifically for VERO-based virus production in both 2D and 3D cell cultures.

#### InVitria

For info: 800-916-8311  
invitria.com

### Automated Cell Counter

During manual cell counting, the subjective evaluation of the definition of a cell introduces bias to the result. The automatic cell counter NucleoCounter NC-200 is designed to limit human interference in counting. With the Via1-Cassette, all errors introduced during pipetting and staining are avoided. The cassette includes an in-built pipette, and the immobilized fluorescent dyes acridine orange and DAPI automatically stain the total and dead cell populations, respectively. The Via1-Cassette is volume-calibrated, ensuring high precision in determining cell count and viability. This patented one-step cell count and viability procedure takes less than 50 s.

#### ChemoMetec

For info: +45-(0)-48131020  
chemometec.com/cell-counters/cell-counter-nc-200-nucleocounter

### Recombinant Wnt3a for Organoid Culture

The recombinant Wnt3a from AMS Biotechnology has a Wnt stabilizer that significantly extends the activity of this protein in serum-free medium from a half-life of just 2 h to around 30 h. Wnt3a is a protein encoded by the *Wnt3a* gene. The *Wnt* gene family consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis, adipogenesis, and in several other developmental processes including regulation of cell fate and patterning during embryogenesis. Wnt3a has been a key reagent in the organoid culture techniques developed by Hans Clevers and coworkers, based on the LGR5 stem cell marker/Wnt signaling system. In serum-free culture conditions, Wnt proteins are very unstable, losing their activity completely in 16 h. In the presence of Wnt protein stabilizer, purified recombinant Wnt3a can support even colon organoid cultures that need strong Wnt activity.

#### AMS Biotechnology

For info: +44-(0)-1235-828200  
www.amsbio.com/wnt-signaling-cancer-proteins.aspx

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# Science

## New Products

*Science* **361** (6402), 614.  
DOI: 10.1126/science.361.6402.614

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