

## ÜberStrainer 300 µm

### Specification

|                  |                                   |
|------------------|-----------------------------------|
| Catalog No.:     | 43-70300-03                       |
| Strainer Color   | red - transparent                 |
| Lot No.          | see label                         |
| Quantity         | 10 pieces, single packed, sterile |
| Mesh material    | PET precision woven monofilaments |
| Housing material | PP                                |
| Autoclavable     | No                                |
| Stability        | Isopropanol, cell lysis buffers   |
| Storage          | Room Temperature                  |



### Component Description



The ÜberStrainer is a sterile sample preparation system to remove or maintain particles of a certain size in the sample to select, separate, isolate and/or concentrate particles. The ÜberStrainer can be used to separate particles like cell organelles, targeted cells from pluriBeads, eggs from larvae, large fat cells from smaller ones, smaller from bigger micro algae, endoparasite eggs, spores, etc. in a very gentle, fast, quantitative and stress-free way. The ÜberStrainer has a modular design with the following basic components:

1. **Screw Cap with an Inserted Disk** closes airtight the Strainer. The Luer Lock connector can be used to attach a standard syringe or a tube connector. The screw cap allows to fill the strainer from the top to the bottom by inverting the system. The inserted disc allocates the injected liquid evenly over the inner part of the housing.
2. **The Strainer** is coupled to the connector ring via a click mechanism. It can be easily separated from the rest of the device. The strainer fits in 50ml tubes to hold it or to use it as a strainer insert (cartridge)

to centrifuge the sample through the mesh. The mesh is situated 5 mm above the strainer end. The strainer fits in the well of a standard 3x4 tissue culture plate.

3. **The Mesh** is an integrated part of the housing to give the device maximum mechanical stability. The sample can be directly processed on top of the strainer by blocking the pressure exchange with the connector.
4. **The Connector** provides two new features. It is equipped with an opening to hold a specially constructed vibrating device which avoids the clogging up of the mesh openings by keeping the mesh oscillating. The luer lock connection in combination with a 50ml standard tube is our traditional feature to increase the flow by creating under-pressure in the tube or to block the pressure exchange and use the compartment above the mesh to treat the isolated target material.

**The connector has to be removed when the strainer is used under pressure**

5. **The adaptor** can be inserted and fixed by a click mechanism into the connector. This allows the user to work with standard 15ml, 2ml or 1.5ml tubes and can avoid an additional spinning step to concentrate the targets.

### Component Storage Condition

Store at room temperature; Keep it dry. Has to be used within 3 years after day of manufacturing

| Product Type | Storage Condition     | Stability | Important Notes |
|--------------|-----------------------|-----------|-----------------|
| ÜberStrainer | Room temperature, dry | See label |                 |

### Warning and Limitations

**The product is for research and development only, not for diagnostic or therapeutic use.**

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