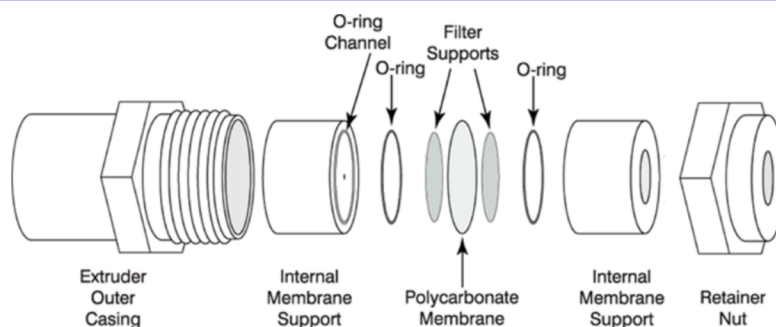


Mini Extruder Pro Assembly Guide

Components at a glance



Before you begin

Clean all parts before first assembly, except polycarbonate membranes and filter supports. Use mild detergent, rinse with hot water and DI or distilled water, and allow parts to dry completely.

Start assembly

1 Prepare supports

Place the two internal membrane supports on a flat surface with the O-rings facing up.



2 Wet filters

Pre-wet a filter support with DI water, or buffer, and center inside the O-ring. The filter support should adhere to the teflon orifice inside the O-ring inner diameter.



3 Insert first teflon support

Insert the internal membrane support, with the filter support, into the extruder outer casing with the O-ring facing up.



4 Add membrane

Place one thin, shiny polycarbonate membrane over the filter support and O-ring.*



*Do not install the blue separator paper.

Finish assembly

Final steps, cleaning, and handling notes

5 Wet second filter support

Pre-wet a second filter support with DI water, or buffer, and place over orifice of remaining internal membrane support.



6 Insert second teflon support

Carefully place the second internal membrane support into the casing (O-ring facing down) being careful not to twist the membrane support when it comes in contact with the membrane. It is best to lift the internal membrane support up inside the stainless steel outer casing to prevent movement of the polycarbonate membrane due to creation of vacuum.



7 Tighten retainer nut

Place the retainer nut on the threaded end of the extruder outer casing and tighten.

Tighten the retainer nut by hand just until it is finger tight; do not use a wrench.



Important notes

- Polycarbonate membranes and filter supports are single-use only.
- Autoclaving the Mini-Extruder Pro and syringes is not recommended because slight distortion may occur.
- Ethylene oxide or gamma irradiation may be used as alternatives.
- Sterilize syringes with ethanol.

Clean after each batch

- Disassemble and clean after each extrusion batch.
- Rinse the Mini-Extruder Pro with methanol or acetone to dry.
- For first-time use, clean all reusable parts with mild detergent and rinse with hot water and DI or distilled water.

Warranty

Avanti Polar Lipids, LLC guarantees the apparatus free of defects of workmanship for a period of thirty (30) days. If you experience any problems due to workmanship during this time, please contact us to arrange an immediate replacement or exchange of the defective component.

Non-warranty

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