



Flow Cell

For real-time study of biofilms



- Apparatus for creation of biofilms and for real-time, non-destructive, microscopic study of biofilms
- User-friendly set-up: A peristaltic pump (optionally available) provides the flow of the media through the Flow Cell chambers with the attached adhesive cells into a waste bottle.
- Available as convertible single channel chamber or as triple channel chamber
- Single use, gamma irradiated chambers eliminate risk of cross-contamination
- Air bubble trap available

Convertible Single Channel Chamber

Two glass cover slips, one on the top of the Flow Cell and one on the bottom, provide attachment surfaces for regular or inverted microscope observation. Alternative TCT treated APET plastic cover slips provide better attachment surfaces for some biofilms and for cell growth and yield. Self sealing injection port for initial inoculation and/or for additional injections. Chamber dimensions (W x L x H): 24 x 40 x 8 mm



Triple Channel Chamber

With influent and effluent tubing attached by barbed fittings and with a glass cover slip attached to the chamber with acrylic adhesive. The cover slip can be scored and removed for access to the biofilm and further analysis. Three separate channels, each measures (L x W x H): 40 x 1 x 4 mm

Air Bubble Trap

The triple cylinder bubble trap with air release cocks captures air bubbles released from the flowing culture medium. Inside the cylinder a "fountain" spout directs the flow of liquid upward for better release of air bubbles. The air release cocks allow the user to control the amount of air captured and govern the pressure on the passing liquid to help mitigate peristaltic pulsation.



Further information on the single and triple channel Flow Cell on request!

- FLCAS0001 **Triple Channel Flow Cell Assembly**, gamma irradiated, including:
- 1 x Triple Channel Flow Cell with glass cover slip
 - Influent and effluent manifolds (ABS)
 - Peristaltic pump tubing (Tygon LFL, inner diameter: approx. 1.14 mm)
 - Clear influent and effluent tubing (PVC, USO Class, inner diameter: approx. 1.59 mm)
 - 1 x three-cylinder bubble trap
 - Luer Lock effluent interrupt
 - 6 tubing identification flags
 - 6 pinch clamps
 - Please note: parts are not autoclavable
- ACCFL0001 **Triple Channel Flow Cell** with glass cover slip, gamma irradiated
not autoclavable
- CFCAS0001 **Single Channel Flow Cell Assembly**, gamma irradiated, including:
- 1 x Convertible Flow Cell with glass cover slip
 - Influent and effluent manifolds (ABS)
 - Peristaltic pump tubing (Tygon LFL, inner diameter: 1.14 mm)
 - Clear influent and effluent tubing (PVC, USO Class, inner diameter: approx. 1.59 mm)
 - Luer Lock
 - 2 tubing identification flags
 - 2 pinch clamps
 - **no bubble trap included**, has to be ordered separately (see below)
 - Please note: parts are not autoclavable
- CFCAS0002 **Single Channel Flow Cell Assembly**, gamma irradiated, including:
- 1 x Convertible Flow Cell with PET cover slip
 - Influent and effluent manifolds (ABS)
 - Peristaltic pump tubing (Tygon LFL, inner diameter: approx. 1.14 mm)
 - Clear influent and effluent tubing (PVC, USO Class, inner diameter: approx. 1.59 mm)
 - Luer Lock
 - 2 tubing identification flags
 - 2 pinch clamps
 - **no bubble trap included**, has to be ordered separately (see below)
 - Please note: parts are not autoclavable
- CFCAS0003 **Single Channel Flow Cell** with glass cover slip, gamma irradiated
not autoclavable
- CFCAS0004 **Single Channel Flow Cell** with PET cover slip, gamma irradiated
not autoclavable
- ACCFL0002 **Three-Cylinder Bubble Trap**, gamma irradiated
- ACCFL0003 **Flow Cell Effluent Collection Stand** (holds three 1.5 ml – 2.0 ml tubes)
- ACCFL0008 **4 Liter Culture Medium Bottle**, made of clear polycarbonate, with silicone tubing and fixtures for delivery of medium directly to flow cells, autoclavable
- ACCFL0010 **10 Liter Culture Medium Bottle**, made of clear polycarbonate (polypropylene cap), with silicone tubing and fixtures for delivery of medium directly to flow cells, autoclavable
- ACCFL0009 **4 Liter Waste Bottle**, made of clear polycarbonate (polypropylene cap), with silicone tubing and fixtures for delivery of medium directly to flow cells, autoclavable
- ACCFL0005 **2-Place Manifolds for Culture Medium**, allows simultaneous delivery to 2 flow cells
- ACCFL0006 **3-Place Manifolds for Culture Medium**, allows simultaneous delivery to 3 flow cells
- ACCFL0007 **4-Place Manifolds for Culture Medium**, allows simultaneous delivery to 4 flow cells
- ACCFL0017 **Drip Chamber**, autoclavable
- ACCFL0014 **Diamond Glass Cutter**
- 25-024-09 **Low Flow/High Accuracy Peristaltic Pump, 24 Channels**
- 25-016-09 **Low Flow/High Accuracy Peristaltic Pump, 16 Channels**
- 25-012-09 **Low Flow/High Accuracy Peristaltic Pump, 12 Channels**
- 25-008-09 **Low Flow/High Accuracy Peristaltic Pump, 8 Channels**
- 25-004-09 **Low Flow/High Accuracy Peristaltic Pump, 4 Channels**