

CIM® Monolithic Well Plates

Product Information

CIM® Monolithic Well Plates couple a standard multi-well plate format with the same monolith technology as our preparative CIMmultus® columns. They are designed to simplify the parallel screening of various chromatographic conditions and enable high throughput purification of large biomolecules.

CIM® Monolithic Well Plates are easy to use and can be operated with vacuum manifolds, positive pressure manifolds, centrifuges, or robotic liquid handlers.



Features and Benefits

- Uniform – standard plate format
- Plug and play – no shaking or incubation required
- Scalable – results can be transferred to preparative columns
- Compatible – can be used with manual and automatic equipment
- Reliable – each plate is tested to limit well-to-well variation
- Flexible – available in a range of volumes and chemistries
- Reusable – can be cleaned and used multiple times

Introduction

Relevant Applications

Screening of chromatographic conditions for the purification.
High throughput purification of small samples.

Target Molecules:

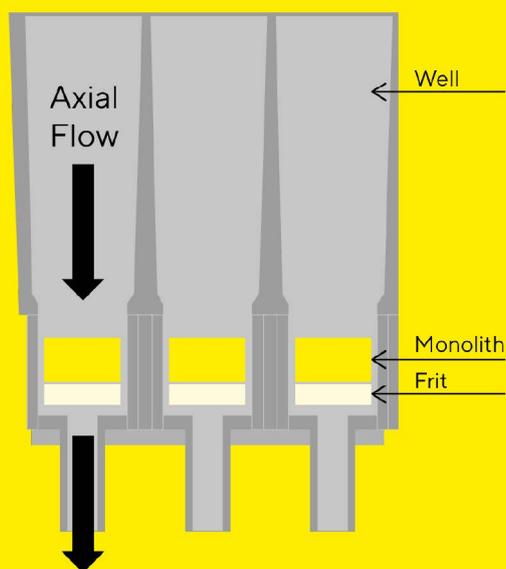
- mRNA
- Messenger RNA (mRNA)
- Adeno-associated viral vectors (AAV)
- Plasmid DNA (pDNA)
- Lipid nanoparticles (LNPs)
- Viral Vectors
- Bacteriophages
- Exosomes
- Virus like particles (VLPs)

Relevant Process Steps

- **AAV capture** step purification using cation exchange chromatography (SO3 chemistry)
- **AAV polishing** step purification using anion exchange chromatography (QA HR chemistry) or mixed-mode chromatography (Prima T chemistry)
- **pDNA capture and polishing**, using weak anion exchange (DEAE chemistry) and hydrophobic interaction chromatography (C4 HLD chemistry)
- **mRNA capture** step purification using affinity chromatography (Oligo dT chemistry) for mRNA with poly-A tail or mixed-mode chromatography (Swiper chemistry) for any RNA modality.
- **mRNA polishing** step purification using reverse phase chromatography (SDVB chemistry).
- **LNP purification** using hydrophilic chromatography (OH chemistry)
- **Lentivirus capture** step purification using strong anion exchanger (QA chemistry)
- **Bacteriophage capture and polishing** using hydrophilic chromatography (OH chemistry), and anion exchange (QA chemistry) or mixed-mode chromatography (PrimaS chemistry)

Technical Specifications

Attribute	96-Well Plate 0.05 mL	96-Well Plate 0.2 mL	24-Well Plate 1.0 mL
Dimensions (L×W×H) [mm]	127.5×85.5×31	127.5×85.5×44	127.5×85.5×44
Well load volume [mL]	0.9	1.6	6.0
Monolith volume in each well [mL]	0.05	0.2	1.0
Monolith dimensions (∅×L) [mm]	5×2.5	7.35×4.8	14.8×5.8



- Each well in the monolithic plates is pre-filled with a defined amount of monolith to enable uniform high flow rates across the plate.
- The monoliths are single-unit structures with highly interconnected convective channels, uniformly distributed throughout the bed.
- This no-void-space design minimizes shear and enhances process recovery, offering a reliable and efficient solution for your chromatographic needs.

Ordering Information

Material	Material Description	Material Description (Catalogue)
120.1011-2	CIM® r-Protein G-0.2 96-well Plate (2)	CIM® r-Protein G 0.2 mL Monolithic 96-well Plate (2 µm channels)
120.1012-2	CIM® r-Protein G LLD-0.2 96-well Plate (2)	CIM® r-Protein G LLD 0.2 mL Monolithic 96-well Plate (2 µm channels)
BIA-120.5122-2-2	CIM® Swiper-0.2 mL 96-well Plate (2)	CIM® Swiper 0.2 mL Monolithic 96-well Plate (2 µm channels)
120.1219-2	CIM® Oligo dT18 C12-0.2 96-well Plate (2)	CIM® Oligo dT18 0.2 mL Monolithic 96-well Plate (C12 Linker) (2 µm channels)
120.5113-2	CIM® QA-0.2 96-well Plate (2)	CIM® QA 0.2 mL Monolithic 96-well Plate (2 µm channels)
120.5114-2	CIM® DEAE-0.2 96-well Plate (2)	CIM® DEAE 0.2 mL Monolithic 96-well Plate (2 µm channels)
120.5114-6	CIM® DEAE-0.2 96-well Plate (6)	CIM® DEAE 0.2 mL Monolithic 96-well Plate (6 µm channels)
120.5118-2	CIM PrimaS®-0.2 96-well Plate (2)	CIM PrimaS® 0.2 mL Monolithic 96-well Plate (2 µm channels)
120.6157-2	CIM® SO3-0.2 96-well Plate (2)	CIM® SO3 0.2 mL Monolithic 96-well Plate (2 µm channels)
120.8136-2	CIM® C4 HLD-0.2 96-well Plate (2)	CIM® C4 HLD 0.2 mL Monolithic 96-well Plate (2 µm channels)
120.8140-2	CIM® OH-0.2 96-well Plate (2)	CIM® OH 0.2 mL Monolithic 96-well Plate (2 µm channels)
120.8140-6	CIM® OH-0.2 96-well Plate (6)	CIM® OH 0.2 mL Monolithic 96-well Plate (6 µm channels)
BIA-120.1218-2	CIM® Oligo dT18 C6-0.2 96-well Plate (2)	CIM® Oligo dT18 0.2 mL Monolithic 96-well Plate (C6 Linker) (2 µm channels)
BIA-120.9001-2	CIM® SDVB-0.2 96-well Plate (2)	CIM® SDVB 0.2 mL Monolithic 96-well Plate (2 µm channels)
BIA-122.1012-2	CIM® r-Protein G LLD-0.05 96-well Plate (2)	CIM® r-Protein G LLD 0.05 mL Monolithic 96-well Plate (2 µm channels)
BIA-122.1218-2	CIM® Oligo dT18 C6-0.05 96-well Plate (2)	CIM® Oligo dT18 0.05 mL Monolithic 96-well Plate (C6 Linker) (2 µm channels)
BIA-122.1219-2	CIM® Oligo dT18 C12-0.05 96-well Plate (2)	CIM® Oligo dT18 0.05 mL Monolithic 96-well Plate (C12 Linker) (2 µm channels)
BIA-122.5113-2	CIM® QA-0.05 96-well Plate (2)	CIM® QA 0.05 mL Monolithic 96-well Plate (2 µm channels)
BIA-122.5113-6	CIM® QA-0.05 96-well Plate (6)	CIM® QA 0.05 mL Monolithic 96-well Plate (6 µm channels)
BIA-122.5114-2	CIM® DEAE-0.05 96-well Plate (2)	CIM® DEAE 0.05 mL Monolithic 96-well Plate (2 µm channels)
BIA-122.5114-6	CIM® DEAE-0.05 96-well Plate (6)	CIM® DEAE 0.05 mL Monolithic 96-well Plate (6 µm channels)
BIA-122.5118-2	CIM PrimaS®-0.05 96-well Plate (2)	CIM PrimaS® 0.05 mL Monolithic 96-well Plate (2 µm channels)
BIA-122.6157-2	CIM® SO3-0.05 96-well Plate (2)	CIM® SO3 0.05 mL Monolithic 96-well Plate (2 µm channels)
BIA-122.8136-2	CIM® C4 HLD-0.05 96-well Plate (2)	CIM® C4 HLD 0.05 mL Monolithic 96-well Plate (2 µm channels)
BIA-122.8140-2	CIM® OH-0.05 96-well Plate (2)	CIM® OH 0.05 mL Monolithic 96-well Plate (2 µm channels)
BIA-122.8140-6	CIM® OH-0.05 96-well Plate (6)	CIM® OH 0.05 mL Monolithic 96-well Plate (6 µm channels)
BIA-122.9001-2	CIM® SDVB-0.05 96-well Plate (2)	CIM® SDVB 0.05 mL Monolithic 96-well Plate (2 µm channels)
BIA-124.1218-2	CIM® Oligo dT18 C6-1 24-well Plate (2)	CIM® Oligo dT18 1 mL Monolithic 24-well Plate (C6 Linker) (2 µm channels)
BIA-124.1219-2	CIM® Oligo dT18 C12-1 24-well Plate (2)	CIM® Oligo dT18 1 mL Monolithic 24-well Plate (C12 Linker) (2 µm channels)
BIA-124.5113-2	CIM® QA-1 24-well Plate (2)	CIM® QA 1 mL Monolithic 24-well Plate (2 µm channels)
BIA-124.5114-2	CIM® DEAE-1 24-well Plate (2)	CIM® DEAE 1 mL Monolithic 24-well Plate (2 µm channels)
BIA-124.5118-2	CIM PrimaS®-1 24-well Plate (2)	CIM PrimaS® 1 mL Monolithic 24-well Plate (2 µm channels)
BIA-124.6157-2	CIM® SO3-1 24-well Plate (2)	CIM® SO3 1 mL Monolithic 24-well Plate (2 µm channels)
BIA-124.8136-2	CIM® C4 HLD-1 24-well Plate (2)	CIM® C4 HLD 1 mL Monolithic 24-well Plate (2 µm channels)
BIA-124.8140-2	CIM® OH-1 24-well Plate (2)	CIM® OH 1 mL Monolithic 24-well Plate (2 µm channels)
BIA-124.8140-6	CIM® OH-1 24-well Plate (6)	CIM® OH 1 mL Monolithic 24-well Plate (6 µm channels)
BIA-124.9001-2	CIM® SDVB-1 24-well Plate (2)	CIM® SDVB 1 mL Monolithic 24-well Plate (2 µm channels)

For all chemistries and formats, visit www.biaseparations.com/plates or shop.sartorius.com

-  **For more information about CIM® QA HR Monolithic Well Plate, visit**
App Note | www.biaseparations.com/library_items/high-throughput-screening-using-cim-qa-hr-96-well-plate-for-aav-empty-full-determination
-  **For more information about CIM® @Tf-0.2 Monolithic Well Plate, visit**
App Note | www.biaseparations.com/library_items/cim-tf-0-2-monolithic-96-well-plate-for-immunoaffinity-isolation-of-transferrin-from-human-plasma
-  **For more information about CIM® Oligo dT Monolithic Well Plate, visit**
App Note | www.biaseparations.com/library_items/screening-binding-conditions-on-cim-oligo-dt-96-well-plate-to-optimize-dynamic-binding-capacity
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App Note | www.biaseparations.com/library_items/fast-and-semi-automatic-optimization-of-capture-step-for-raav-purification-using-cim-so3-96-well-monolithic-plate

Method Guide | www.biaseparations.com/library_items/purification-of-raav-with-cim-so3-monolithic-96-well-plate
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Germany

Sartorius Stedim Biotech GmbH
August-Spindler-Strasse 11
37079 Goettingen
Phone +49 551 308 0

Slovenia

Sartorius BIA Separations d.o.o.
Mirce 21
5270 Ajdovščina
Phone +386 59 699 500
Sales.bia@sartorius.com

 **For more information, visit**
www.sartorius.com