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TIC-PL-082-101 Rev. D

Thomson Product Catalog

Solutions At Work™



THOMSON
MADE IN USA

htslabs.com

A Little About Thomson

SOLUTIONS AT WORK™

Thomson Instrument Company has been positioned as a key contributor in the life sciences industry. We have successfully preserved our core values and commitment to innovation over decades. We have maintained our production facilities in the **United States**, ensuring that quality and product design remain at the forefront of our operations.

Our products remain at the forefront of innovation & utility

Our products are designed to meet the rigorous demands of scientific research, providing reliable, efficient solutions that support a wide range of applications. Thomson addresses the growing need for sustainability, offering solutions that enhance operational efficiency and reduce waste. One of our strategies for success is the collaborative approach with customers. Solving customer challenges by integrating unique design features into our offerings, Thomson has consistently enhanced the functionality of our products, setting us apart in the industry.

Our proactive approach ensures that Thomson remains at the cutting edge of innovation, capable of delivering solutions that meet the ever-evolving needs of our customers. By aligning our product development processes with customer needs, we make sure our solutions are relevant and impactful, contributing to the success of our customers.

Open to Collaboration

INNOVATIVE PRODUCT LINE

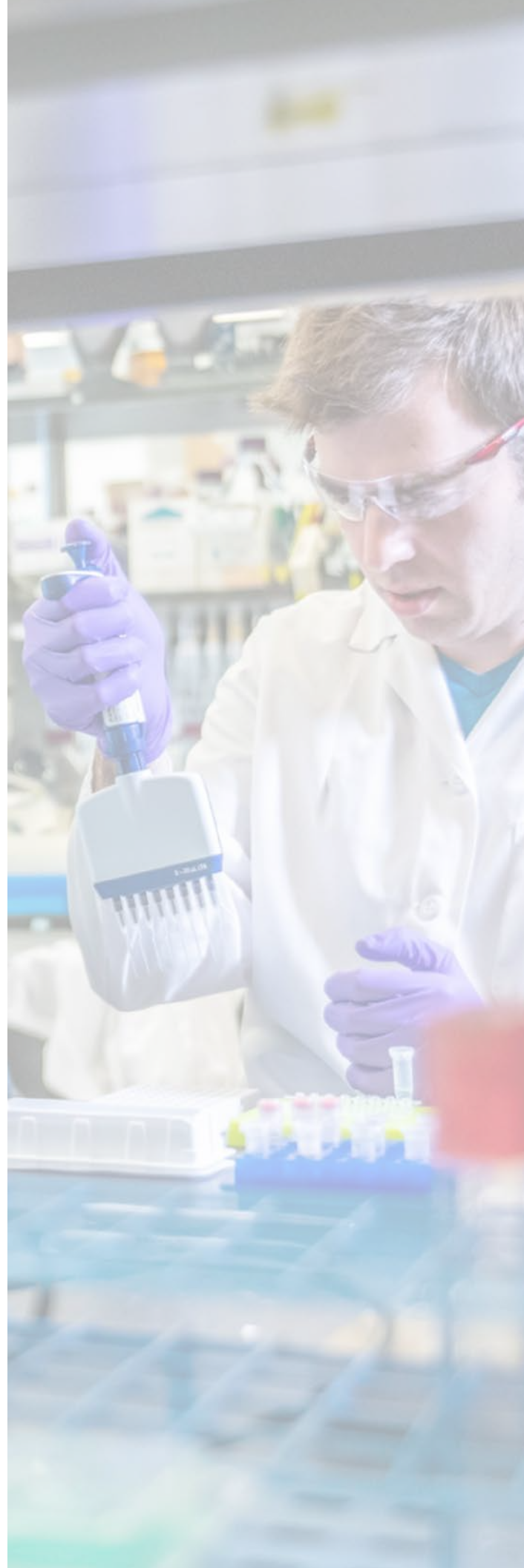
Scientists around the world are discovering new ways to use Thomson Filter Vials. Whether testing pharmaceuticals, performing toxicology, or testing for drugs of abuse Thomson Filter Vials have proven to be indispensable tools for sample prep when using HPLC, GC, LC-MS, or GC-MS, methodologies.

Thomson offers a full line of shake flasks and accessories with above-average yields and higher working volumes, designed specifically for insect/mammalian, or microbial/*E. coli* cells based on an understanding and experience of lab operations.

Our well-plate catalog continues to grow and provide the highest quality plates, ready for robotics, cell culture, synthesis, or analysis.

SINGLE StEP® Empty Columns are ready for the addition of sorbents or resins depending on the application.

If you have unique needs or need a new product please reach out to us. We look forward to collaborating with you.



Thomson Product Catalog

Solutions At Work™

Solutions At Work™

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Solutions At Work™

Thomson's mission is to provide technical expertise while partnering with our customers to deliver practical scientific innovations. Made in the USA.

Innovative Single-Use Solutions

Thomson delivers practical scientific innovations enabling scientific advancements in pharmaceutical, biotech, environmental/food, toxicology/forensics, and contract manufacturing industries by helping to improve cell growth, purification, and analysis.

Cell Culture Solutions

Working with scientists has led to Thomson developing innovative products for cell expansion, bioprocessing and analysis

Shake Flasks

Higher working volumes and improved aeration increase efficiency for expansion of mammalian cells, insect cells, *E. coli* and microbial cells.

Specialty Shake Flasks

Multifunctional feed, transfer and sampling ports serve as mini-bioreactors reducing your media costs and saving shaker space.

Transfer Caps

For seeding larger bags and fermenters as well as for filling flasks with media from a bulk source provide time and cost savings keeping your lab operations running smoothly.

Plates

Designed for seeding suspension cell culture, bioassay and storage applications, or both biological and analytical sample preparation.

Analytical Solutions

Working with scientists has led to Thomson developing innovative products for chemical analysis

Filter Vials

Pre-analytical sample filtration that improves your signal-to-noise ratio and extends column life while minimizing plastic waste.

Plates

Designed for sample preparation and storage applications, or both small scale pilot projects and high throughput sample analysis.

Empty Columns

Low pressure FPLC, LPLC and MPLC systems come in a variety of sizes perfectly adapted to fit your purification needs.

Glassware

Synthesis and analytical work include vials for reactions and HPLC Autosamplers, caps and lid solutions, plastic and metal blocks for storage and dry down, custom glassware, barcoding or laser etching.

Photo by Berti Benbanaste

An Introduction to the Optimum Growth® System

The Optimum Growth® System consists of a broad range of working volumes for shake flasks, specialty shake flasks, transfer caps and the Rapid Clear® Cap for cell culture clarification prior to protein purification. The modular design of the Optimum Growth® System allows components to be used interchangeably and assures that small scale bioprocessing projects can remain GMP-compliant.



SHAKE FLASKS

Higher working volumes and improved aeration increase efficiency for expansion of mammalian cells



SPECIALTY SHAKE FLASKS

Feed / transfer and sampling ports enable our speciality flasks to serve as an aseptic system and mini-bioreactor, while also increasing working volume, aeration and mixing rates



TRANSFER CAPS

For seeding larger bags and fermenters, as well as filling flasks with media from a bulk source, providing time and cost savings to keep your lab operations running smoothly



RAPID CLEAR® CAP

Quickly and efficiently clarify cell culture media directly from the Thomson 5L Optimum Growth® shaker flask without the need for centrifugation



Optimum Growth® Flasks

Thomson Optimum Growth® Flasks are designed for mammalian and insect cell culture, available in 125mL, 250mL, 500mL, 1.6L, 2.8L, 5L, and 7L volumes.

They are superior to traditional shake flasks due in part to the fact that they support a 40-50% fill volume, versus traditional flasks which have a fill volume of 25%.

By holding up to 2x more media, Optimum Growth Flasks greatly increase shaker cabinet efficiency.

Key Features

- Baffles designed for high aeration and low shear to maintain cell viability
- Same footprint as comparable Fernbach flask but with a 40-50% fill volume
- Less foaming than disposable Fernbach potentially eliminates additives
- 0.2µm Vented Cap simultaneously maintains high gas exchange and sterility
- Transfer Cap option connects directly to cell bags or bioreactors with multiple connection options
- Scalable flask line allows more flask sizes to be shaken on the same shaker, improving efficiency and flexibility versus other products
- Individually packaged and sterilized for immediate use



Optimum Growth® Special Flasks

Components For Closed Systems

Thomson Optimum Growth® Special Flasks were designed for the unique needs of small- to medium-scale bioprocessing applications.

Sampling Flasks

Optimum Growth® Sample Flasks with one-way sampling valves that help reduce viable cell count sampling times

Key Feature

- Eliminate the need to remove flask caps & allow aseptic sampling on the benchtop

Multiport Flasks

Optimum Growth® Multiport Flasks serve as closed systems with feed/transfer and sampling ports

Key Features

- Feature feed/transfer ports for seeding larger bioreactors or for batch feeding medium sized cultures
- Both aseptic sampling valves & feed/transfer ports make the 1.6L, 2.8L and 5L flasks a closed system that does not need to be opened





Replace TPP Tubes

Mid-Scale Bioprocessing Solutions

The design of Thomson 6-well plates provides a mid-scale volume for suspension cell growth and optimizes production yields. The sterile 6-well plates have been tested for their uniformity and reliability, ensuring consistent results across experiments, which is essential for reproducibility in production settings. These plates are specifically engineered for better gas exchange and nutrient flow, which can significantly increase productivity and growth.



Working Volumes Ranging From 20ml to 50mL Per Well



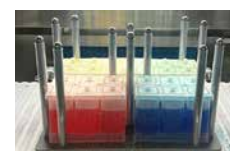
Optimum Growth® Integrated Lid (patent pending)

Key Features

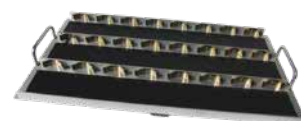
- 20-50mL working volumes, optimize conditions to your experiments
- Contributes to consistent cell growth & viability by promoting uniform aeration & nutrient distribution
- Results scalable from Optimum Growth® 6-well plate to our 7L Flasks

Universally Compatible

The Thomson 6 Well Plates work seamlessly with Infors™ Peg Tray Adapter (Part# 12653.2.2 for 4 plates; Part# 12654.2.2 for 6 plates), universally compatible with any shaker for stable 50 mL volumes under recommended agitation. Alternatively, the Kuhner™ Spring Tray F (Part #104825) offers precise positioning and efficient handling, enhancing stability and performance.



Infors™ Peg Tray Adapter (Part# 12653.2.2 for 4 plates) (Part# 12654.2.2 for 6 plates)



Kuhner™ Spring Tray F system (Part# 104825)

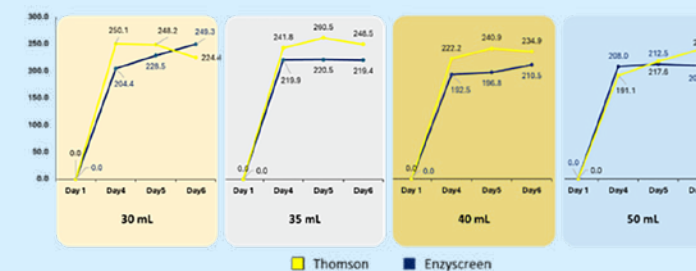
Thomson Solutions At Work™ is not affiliated with Infors™ HT, Kuhner™, Thermo Scientific, and TPP Tubes

CHO Transient & Expi293F Cell Line Data

CHO Transient

CHO Transient Expression of mAb Up to 50mL

Titer (µg/mL) over time

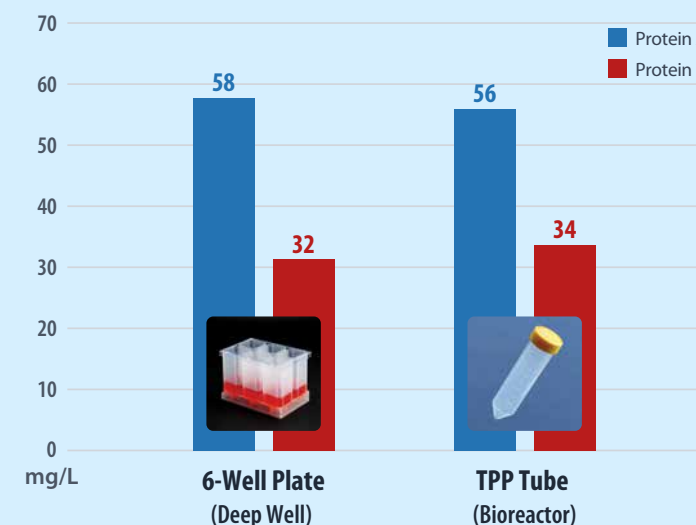


Study 1 | Large Pharma Customer

In collaboration with a major pharmaceutical manufacturer, we evaluated the platform's performance using a CHO transient expression system for monoclonal antibody production. The study examined immunoglobulin G (IgG) titer across multiple working volumes up to 50mL. Analysis of protein expression data demonstrated consistent IgG titers regardless of culture volume, validating the system's capability to maintain optimal production conditions throughout the working range. These results confirm the platform's ability to support reliable process scaling while preserving critical quality parameters, enabling efficient transition from development to production scales.

Expi293F™ Cells

User-Friendly Format for Maximizing Throughput



Study 2 | Biopharma Customer

A comprehensive evaluation conducted by a biopharma company compared protein expression efficiency across multiple culture formats using Expi293F™ cells. The study systematically assessed protein production and the study systematically assessed protein production in Thomson 6-well plates, and conventional 50mL spin tubes under standardized conditions. Quantitative analysis of purified protein yields demonstrated that 6-well plate systems achieved equivalent or superior production levels compared to traditional spin tube methods. These results validate the platform's capability to maintain high-level protein expression while offering enhanced throughput capacity and operational flexibility for advanced bioprocessing applications.

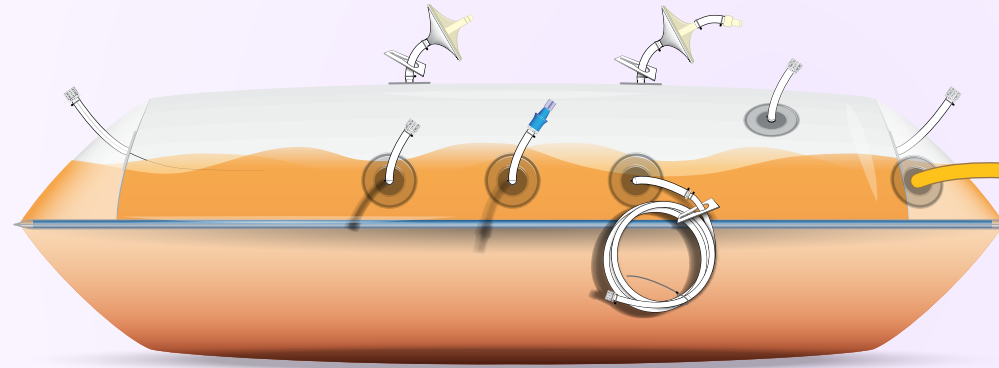
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Mammalian & Insect Cell Lines

Well Count	Working Vol.	Shake Speed	Throw
6	20-50mL	225RPM	25mm
24	4-5mL	350RPM	12.5mm
96	500µL	900RPM	3mm

An Introduction to Transfer Caps & How They Work

Thomson Transfer Caps are used with our Optimum Growth® 1.6L, 2.8L & 5L flasks for aseptic transfer of cells or media into any vessel. Transfer Caps eliminate the need to move cells to an intermediate vessel for scale-up or to seed cultures. Transfer caps enable reagent addition, seeding of larger bioreactors or cell bags, and media transfer.



Inversion Transfer Caps

Utilize Gravity Feed for Simple Aseptic Transfer of Media or Cells

Key Features

- Gravity feed keeps cells stress free
- Dip tube attached to 0.2µm syringe filter provides aseptic air displacement
- Configurations include with & without attached tubing to accommodate a variety of vessel connections
- C-Flex® 16 & 24 tubing sizes available for tube fusing



Dip tube for sterile air displacement

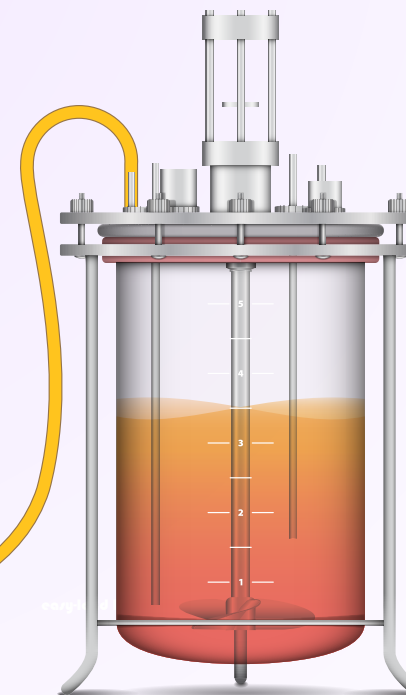
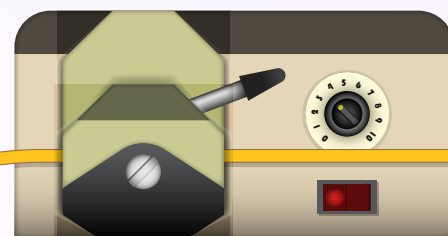
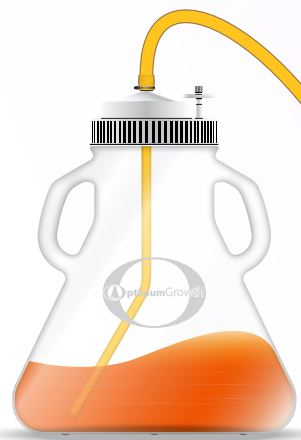
Stand & ring sold separately

Bidirectional Transfer Caps

Utilize a Peristaltic Pump for Easy Aseptic Bidirectional Transfer of Media or Cells

Key Features

- Equipped with 2' of 1/4" OD C-Flex® 16 tubing for pumping, ending with either a plug or male Luer lock
- Downstem allows for bidirectional transfer
- 0.2µm PTFE syringe filter provides aseptic air displacement while pumping



C-Flex® 16 ID: 1/8" (3.1mm), OD: 1/4" (6.35mm)
C-Flex® 24 ID: 3/16" (4.76mm), OD: 7/16" (11.1mm)

Rapid Clear® Cap

Revolutionary Technology in Downstream Processing

The Thomson Optimum Growth® System of products expanded into downstream processing with a revolutionary new technology that allows high speed clarification of cellular material. Thomson developed the Rapid Clear® Cap to address the needs of scientists to quickly and efficiently clarify cell culture media directly from the Thomson 5L Optimum Growth® shaker flask without the need for centrifugation.

**Clarify 3L of Cell Culture
In < 30 Minutes with No
Centrifugation Required**

Key Features

- Depth filtration with a 0.2µm final pore size eliminates multiple filtration steps and in most cases centrifugation
- Significant time savings versus traditional spin down technique
- Cell culture clarification of low or high density cultures of CHO stable, CHO transient, HEK293, hybridoma, and other mammalian cell lines
- Eliminates transfer steps: The Rapid Clear® Cap screws directly onto the Optimum Growth® Flask
- Secondary cap attaches to a new Optimum Growth® Flask or to a storage container with a Luer lock
- Solid Caps are also available for long-term storage of clarified media in the 2.8L or 5L receiving flask

Key Benefits

- Save time, clarify 3L of cell culture in less than 30 minutes – with no centrifugation required!
- Reduce consumables used by up to 90%
- Walk away convenience and safety – minimize endotoxin exposure



An Introduction to the Ultra Yield® System

The Ultra Yield® System consists of three components: Ultra Yield® Flasks, AirOtop® Enhanced Seals, and Plasmid+® Enriched Media. Superior results are achieved when all three components are used simultaneously.



Ultra Yield® Flasks

Enhance the growth of *E. coli* and other microbial cells up to 10x over traditional flasks. Available in standardized volumes of 125mL, 250mL, 500mL, 1.5L and 2.5L



Plasmid+® Media

Is animal origin free media and adds all the essential nutrients required to support the enhanced cell growth obtained by using Ultra Yield® Flasks



AirOtop® Enhanced Seals

As an alternative to foil or cotton plugs AirOtop® Seals provide a consistent and sterile gas-permeable barrier. Note that Vented Screw Caps are also available for Ultra Yield® flasks.



Vent Cap

The Ultra Yield® Vented Screw Caps are non-autoclavable sterile hydrophobic barrier ensures optimal gas exchange while preventing contamination for high-volume applications in microbiology research.



Ultra Yield® Flasks

Thomson's Ultra Yield® system has proven over the last decade to enhance the aeration of *E. coli* and other microbial cells.

Ultra Yield® Flasks are designed to be either single-use or autoclaved up to 3x and feature a unique geometry that enhances gas exchange.



Key Features

- 10x increased aeration over standard shake flasks
- Increased DNA & protein production
- Fully scalable results
- Replacement for glass flasks
- Fits all standard flask clamps
- Easily adaptable into microbial growth protocols
- Sterile, autoclavable flasks from 125mL – 2.5L
- Use with AirOtop® Enhanced Seals or Vented Screw Caps & Plasmid+® media

Plasmid+®

As a component of the Thomson Ultra Yield® system, Plasmid+® media plays a significant role in helping to generate higher plasmid yields.

Key Features

- Media specifically formulated for high DNA growth
- Increased supercoiled DNA per Liter
- Consistent plasmid production for up to 22 hours
- Use with tubes, plates, flasks, and fermenters
- Sterile and ready to use. Simply add antibiotics and Grow!
- Animal Origin Free formulation
- Store Plasmid+® liquid media at room temperature for up to 24 months



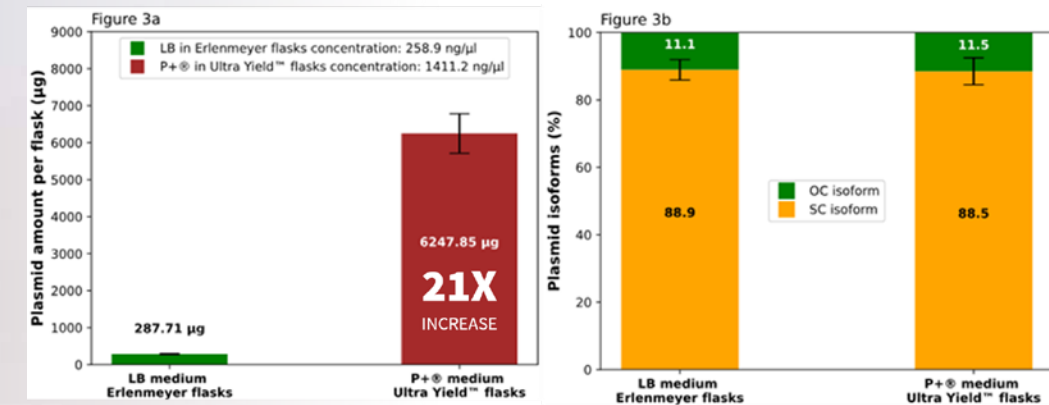
Upgrade to Plasmid+® For Yield Increase & High Quality Transfection DNA

~21X Yield Increase Over LB

PLASMID+® gives 88.5% Super Coiled DNA

PLASMID+® supports higher cell densities and plasmid yields than LB media. *E. coli* DH5α is the preferred host strain for use with PLASMID+® liquid medium.

Equal Quality DNA



NOTE: This is with Ultra Yield® Flasks and Seals/Vent caps

School of Life Sciences

INFORS

n|w University of Applied Sciences and Arts
Northwestern Switzerland

NIPTE

Thomson Solutions aAt Work™ is not affiliated with Infors, NIPTE, or University of Applied Sciences.

CAUTION: Avoid ingestion and contact with skin. For lab use only. Not for drug, household or other uses. Certificate of Analysis, MSDS available upon request.

AirOtop® Enhanced Seals & Vented Screw Caps

As a component of the Thomson Ultra Yield® System, AirOtop® Enhanced Flask Seals are disposable, high gas exchange, sterile seals for all shake flasks.

AirOtop® Enhanced Seals

AirOtop® Enhanced Seals (patented) are disposable, high gas exchange, sterile seals for all shake flasks and are a component of Thomson's Ultra Yield® Solution and provide you with:

Key Features

- Sterile hydrophobic barrier with a resealable gas-permeable membrane
- Fits all Ultra Yield® Flasks as well as other brand flasks both glass and disposable
- AirOtop® Enhanced Seals help improve microbial growth and are part of the Ultra Yield® System
- Resealable for up to 24 hours in culture

Ultra Yield® Vented Screw Cap

Vented Screw Caps feature a durable non-autoclavable design for use on Thomson Ultra Yield® Flasks. They also include a sterile hydrophobic barrier for high-volume gas exchange.

Key Features

- Sterile hydrophobic barrier with a gas-permeable membrane
- Improve microbial growth

Disposable, Sterile, Easy to Use Higher Gas Exchange on All Types of Shake Flasks

Sterile Membrane Barrier

AirOtop® Seals and Vented Screw Caps feature a sterile membrane barrier which provides a higher gas exchange on all types of shake flasks. AirOtop® Enhanced Seals are designed to fit on the tops of both Thomson flasks and traditional glass flasks. To determine the correct AirOtop® Seal to use with your glass or disposable flask refer to AirOtop® Enhanced Seal Compatibility below.

Resealable for Up to Approximately 24 Hours

AirOtop® Seals are disposable, sterile, easy to use, and resealable for up to approximately 24 hours. Multiple sizes are available to keep all of your flasks covered. Testing has been conducted at multiple customer sites with great results. Organisms tested include Protista (Algae), *E. coli*, and other microbes which exhibited increased cell density, a more neutral media pH and increased gas exchange rates.

DNA Applications optimized by Vented Caps

Ultra Yield® Vented Screw Caps are essential for DNA applications in Thomson Ultra Yield® Flasks due to their durable, non-autoclavable design and sterile hydrophobic barrier, which ensures effective gas exchange. These caps facilitate optimal microbial growth and prevent contamination.

Unlike AirOtop seals, which are designed for specific applications, vented caps provide a versatile solution for various experimental conditions, allowing researchers to confidently conduct high-volume experiments while maintaining the integrity of their samples.





SINGLE STEP[®]

Empty Columns

Fill different sized columns with a variety of sorbents & resins for purification application.

Easy to Use

Don't be Limited with Your Column Size

At Thomson, we are aware of the need to customize available apparatus to the individual experiments. Our SINGLE StEP[®] Empty Columns (patented) provide you the opportunity to fill different sized columns with a variety of sorbents and resins for purification applications. The wide range in which we offer these columns means you are not limited by column size. SINGLE StEP[®] Empty Columns allow for the simple connection to FPLC/LPLC/MPLC systems.

Key Features

- Acceptable for use with Gravity or FPLC/LPLC/MPLC
- Multiple sizes for scales from 10mL-600mL (4g – 300g)
- Durable design for pressures up to 200psi
- Top & bottom connections are standard Luer sizing



An Introduction to Filter Vials

Thomson Filter Vials are a single system which replaces HPLC Vials, HPLC Caps, Syringes, & Syringe Filters for the filtration of samples. In 15 seconds, Thomson Filter Vials filter samples in an autosampler-ready vial.

Key Features

- Same Size as a standard HPLC Vial and will fit easily into any standard HPLC vial machine or tray
- PTFE, PVDF, PES and Nylon membranes are available depending on the percentage of organic solvent in the sample and the amount of protein binding
- Pore sizes of either 0.2 μ m or 0.45 μ m will provide the perfect degree of filtration needed from viscous to clarified samples
- Versatility is built into Thomson's line of Filter Vials. Whether your samples are low volume or viscous or particulate-laden or contain a high volatility organic solvent Thomson has a Filter Vial to fit your needs



Syringe Filter Built In

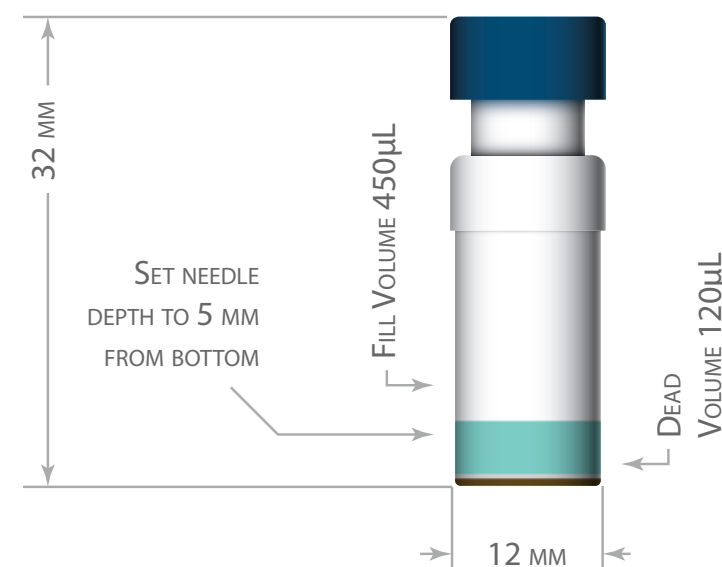
Equivalent to A Syringe Filter Built Into Your HPLC Vial

Filter Vials are equivalent to a syringe filter built into your HPLC vial. Even samples that appear clear to the eye potentially have particulates that can clog the machine, causing down time and costly maintenance. Filter Vials increase productivity by eliminating a transfer step required when using a syringe filter.

How Filter Vials Work

Similar to How A French Press Works...

Similar to how a french press (cafetière à piston) works, Filter Vials filter particulates out of the sample with similar membranes used in syringe filters. The pressing of the plunger into the shell vial forces the sample up through a filter to separate the particulates from the sample to be analyzed. Thomson has several filter membranes and pore sizes to choose from making the Filter Vial a versatile tool in the lab.



Easy As 1, 2, ... Done!

In Two Steps

1. Deposit 450 μ L of sample into shell vial
2. Insert plunger into the outer shell & press

15 Seconds

In two steps and 15 seconds you can have filtered sample for analysis. If you need to filter more than one sample, the Toggle Press (up to 5) or Multi-Use Press (up to 48) can be used.

You can prepare a particulate free sample in less time than it takes to open the syringe packaging and add a syringe filter.



DEPOSIT SAMPLE



COMPRESS FILTER VIAL



READY FOR ANALYSIS

Filter Vial Membrane

Membrane Pore Size

The recommended membrane pore size for sample filtration is based on the cell or cell debris content of the sample and the particle size of the packing material in the chromatography column used to analyze the sample. If the sample contains cells or cellular debris, then a 0.2µm pore size membrane is recommended to maintain system sterility.

Which to use?

- **0.2µm Pore Size**
 - Cells or Cell Debris in Sample
 - Chromatography Column Particle Size <3µm
- **0.45µm Pore Size**
 - Chromatography Column Particle Size >3µm

Membrane Material

The recommended membrane for sample filtration is based on the percentage of organic solvent in the sample and the amount of protein binding.

Compatibility

For chemical or compound compatibility with our Filter Vials & membranes see the Chemical Compatibility Index & Compound Compatibility Index in our Technical Library.

	Aqueous	>50% Organic	Low Protein Binding
PTFE		●	
PVDF	●		●
Nylon	●	●	
PES	●		●

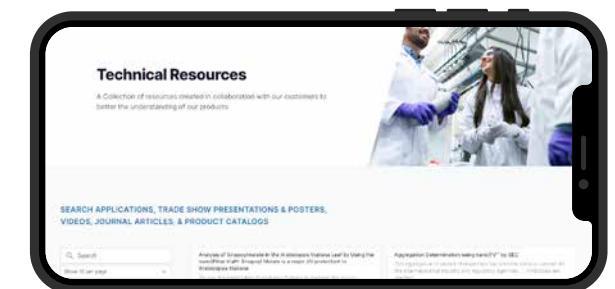
What Applications Can the Filter Vial be Used For?

With Thomson's family of Filter Vials and membranes available to you, finding ways to replace cumbersome and expensive syringe filters in the lab is easy. Here are just some of the documented applications you can use Filter Vials for in your lab today. See our Technical Library at htslabs.com to see a full list of applications. We work hard with small and large companies to produce proven protocols and methods for our products. If you find a use for Filter Vials in your workflow we would love to hear about it.

	nanoFilter Vial®	StandardFilter Vial	Low EvapFilter Vial	eXtremeIFV®
10µL-250µL	●			
450µL		●	●	●
UPLC Compatible	●	●	●	●
GCMS Compatible	●		●	
30% Particulates				●
Viscous				●
Replacement for SPE				●
General Liquids < 10% particulates	●	●	●	●
Cell Fermentation	●			●
Particulate Removal	●	●	●	●
Automation Compatible	●	●	●	●
Small Molecules	●	●	●	●
Food & Supplements		●	●	●
Toxicology	●	●	●	●
Pesticides	●			●
Environmental	●	●	●	●

Thomson's Technical Library

You can find application notes, videos and more information on our products by visiting our website at htslabs.com.

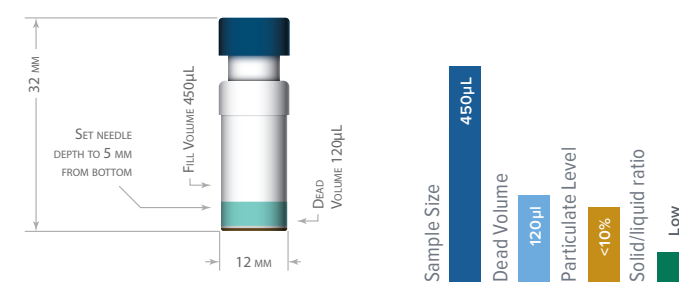


A Comparison of the Filter Vial Types

Filter Vial

Standard For Most Samples

Max Fill Vol. 450µL
Dead Vol. 120µL



Key Features

- General purpose filtration
- <10% particulates
- Pre-slit septum

Replaces in the lab

- Syringe Filters
- Syringes
- HPLC Vials/Caps

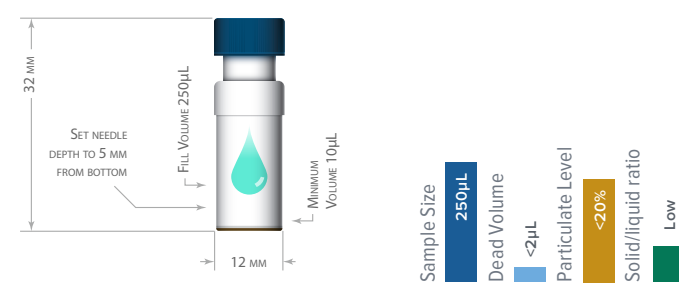
Applications

- 120µL-450µL
- General Liquids < 10% particulates
- Particulate Removal
- Automation Compatible
- Small Molecules
- Food & Supplements
- Toxicology
- Environmental

nan•Filter Vial.

When Every µL Counts

Max Fill Vol. 250µL
Min Fill Vol. 10µL (for 2µL injection)



Key Features

- 10µL sample for 2µL injection
- Available with pre-slit or non-slit septum

Replaces in the lab

- Centrifugation & Spin Filters
- Small Volume Syringe Filters
- Syringes
- High Recovery Vials/Caps
- Inserts with HPLC Vials/Caps

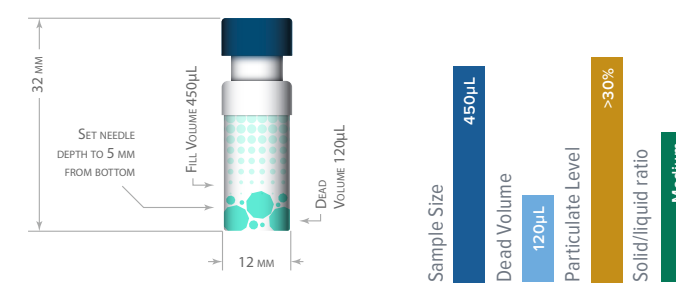
Applications

- 10µL-250µL
- General Liquids < 10% particulates
- Cell Fermentation
- Particulate Removal
- Automation Compatible
- Small Molecules
- Toxicology
- Pesticides
- Environmental

EXTREME/FV.

Multi-Layered Filtration

Max Fill Vol. 450µL
Dead Vol. 120µL



Key Features

- Used for Particulate Laden Samples
- Contains a Depth Pre-Filter
- Pre-slit septum

Replaces in the lab

- Syringe Filters
- Syringes
- HPLC Vials/Caps

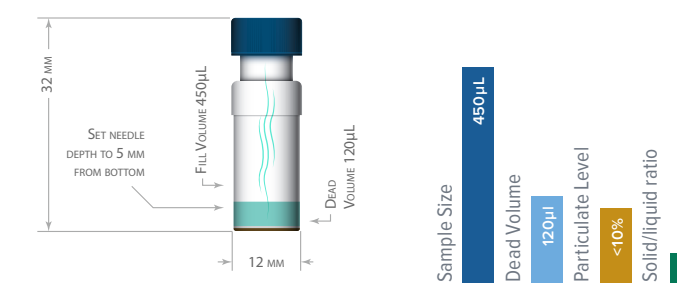
Applications

- 120µL-450µL
- ≤ 30% Particulates
- Viscous
- Replacement for SPE
- Cell Fermentation
- Particulate Removal
- Automation Compatible
- Small Molecules
- Food & Supplements
- Toxicology
- Pesticides
- Environmental

Low Evap|Filter Vial

Standard For Most Samples

Max Fill Vol. 450µL
Dead Vol. 120µL



Key Features

- General purpose filtration
- Non-split septum
- <10% particulates
- Evaporation rate <0.4% over 24-hour

Replaces in the lab

- Syringe Filters
- Syringes
- HPLC Vials/Caps

Applications

- 120µL-450µL
- General Liquids < 10% particulates
- Particulate Removal
- Automation Compatible
- Small Molecules
- Food & Supplements
- Toxicology
- Environmental

Collection Plates

Thomson Well Plates in 6-, 24- and 96-Well configurations are ideal for sample preparation or concentration and feature various well and well bottom shapes to suit your analytical needs. To compliment Thomson well plates we also offer various sealing options including capmats, airporous seals, foil seals and plastic lids.

- **Well Shape** – Square or Round to fit your cell type and culture condition requirements
- **Well Bottom Shape** – Pyramid, Round and V-bottom to fit your applications
- **Well Plate Orientation** – Fixed for Robotic Liquid-Handling Systems



Filter Plates

Thomson Filter Plates in both 24- and 96-Well configurations are designed for analytical sample preparation. Depending on your application we may recommend using a positive pressure manifold, centrifugation or a Thomson Vacuum Manifold.

- **Versatility** – solid phase extraction and affinity phase adsorption applications involving high throughput robotic Liquid Handling Systems
- **Solvent Compatibility** – PVDF and PTFE Filter Plates are similar in principle to Thomson Filter Vials but in a 96-well plate
- **Long funnel design** – Eliminates cross-contamination between sample collection wells by fully inserting below the top of the collection plate



Part Numbers

Ultra Yield® Flasks

Flask Size	125mL	250mL	500mL	1.5L	2.5L
Part #	931147	931144	931141	931138	931136-B
Seal Compatibility	AirOtop® (899421)*	AirOtop® (899423)*	AirOtop® (899424)*	AirOtop® (899425)*	AirOtop® (899425)*
Flask Material	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)
Top Style	threaded	threaded	threaded	threaded	threaded
Top	sold separately	sold separately	sold separately	sold separately	sold separately
Working Volume	40 - 50mL	75 - 110mL	125 - 200mL	250-350mL	500mL - 1L
Shake Speed	300-350 RPM	300-350 RPM	300-350 RPM	300-350 RPM	300-400 RPM
Baffles	Yes	Yes	Yes	Yes	Yes
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	50	50	25	12	6

AirOtop® Enhanced Seal

Flask Compatibility	125mL	250mL	500mL	1.5L & 2.5L
Part #	899421	899423	899424	899425
Membrane	Sterile hydrophobic barrier	Sterile hydrophobic barrier	Sterile hydrophobic barrier	Sterile hydrophobic barrier
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	100	100	100	100

Vent Cap

Flask Compatibility	125mL	250mL	500mL	1.5L & 2.5L
Part #	899109	899110	899111	899566
Membrane	PTFE	PTFE	PTFE	PTFE
Porre Size	0.2µm	0.2µm	0.2µm	0.2µm
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	50	50	25	24

Plasmid+® Media

Part #	446300
Final Product	Liquid Medium
Preparation Method	ready to use
Target Organism	<i>E. coli</i>
Size	1L
Sterility (SAL)	10 ⁻⁶
Qty/Case	6

Ultra Yield® Bidirectional Transfer Cap

Flask Compatibility	1.5L & 2.5L
Part #	899136
Tubing Connection	Tube Fuse/Female Luer Lock
Tubing Diameter	C-flex 16 ID: 1/8" (3.1mm), OD: 1/4" (6.35mm)
Tubing Length	24" (609.6mm)
Style	Threaded
Material	PP (polypropylene)
Sterility (SAL)	10 ⁻⁶
Air Filter Ventilation	0.2µm PTFE vent filter
Qty/Case	6

Optimum Growth® Flask

Flask Size	125mL-LE*	125mL	250mL	500mL	1.6L	2.8L	5L
Part #	931110-11	931110	931111	931112	931113	931114	931116
Top Style	threaded	threaded	threaded	threaded	threaded	threaded	threaded
Top	low evap cap	vent cap	vent cap	vent cap	vent cap	vent cap	vent cap
Working Vol.	20-40mL	50-63mL	100-125mL	200-250mL	400-900mL	1.0-1.4L	2.0-2.5L
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	50	50	50	25	12	6	4

* LE = Low Evaporation, small volume applications

Double Bagged Optimum Growth® Flask

Flask Size	125mL	250mL	500mL	1.6L	2.8L	5L	7L
Part #	931110	931111	931112	931113	931114	931116	931117
Top Style	threaded	threaded	threaded	threaded	threaded	threaded	threaded
Top	vent cap	vent cap	vent cap	vent cap	vent cap	vent cap	vent cap
Working Vol.	50-63mL	100-125mL	200-250mL	400-900mL	1.0-1.4L	2.0-2.5L	2.8-5L
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	50	50	25	12	6	4	4

Optimum Growth® Sampling Flasks

Flask Size	125mL	250mL	500mL	5L
Part #	931110-SP	931111-SP	931112-SP	931116-PORT-E
Working Vol.	50-63mL	100-125mL	200-250mL	2.0-2.5L
Sample Connection	Male Luer Lock	Male Luer Lock	Male Luer Lock	Male Luer Lock
Top Style	Threaded	Threaded	Threaded	Threaded
Top	Sampling Vent Cap	Sampling Vent Cap	Sampling Vent Cap	Vent Cap
Sample Tubing Vol.	163µL	218µL	313µL	381µL
Air Filter Ventilation	0.2µm PTFE	0.2µm PTFE	0.2µm PTFE	0.2µm PTFE
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	50	50	25	4

Optimum Growth® Multiport Flasks

Flask Size	125mL	250mL	500mL	1.6L	2.8
Part #	931110-DP	931111-DP	931112-DP	931113-PORT-TRT	931114-PORT-TRT
Working Vol.	50-63mL	100-125mL	200-250mL	400-900mL	1.0-1.4L
Top Style	Threaded	Threaded	Threaded	Threaded	Threaded
Top	dual port vent cap	dual port vent cap	dual port vent cap	vent cap	vent cap
Sample Connection	Male Luer Lock	Male Luer Lock	Male Luer Lock	Male Luer Lock	Male Luer Lock
Sample Tubing Volume	163µL	218µL	313µL	326µL	358µL
Transfer Tubing	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable
Transfer Connection	Tube Fuse	Tube Fuse	Tube Fuse	Tube Fuse	Tube Fuse
Tubing Diameter	C-Flex® 16	C-Flex® 16	C-Flex® 16	C-Flex® 16	C-Flex® 16
Tubing Length	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)
Air Filter Ventilation	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	30	40	15	12	6

C-Flex® 16 ID: 1/8" (3.1mm), OD: 1/4" (6.35mm)

* Sold separately

Optimum Growth® Multiport Flasks

Flask Size	5L	7L	7L
Part #	931116-PORT-TRT-F	931117-55-18	931117-55-14
Working Vol.	2.0-2.5L	2.8-5L	100-125mL
Top Style	Threaded	Threaded	Threaded
Top	vent cap	vent cap	vent cap
Sample Connection	Male Luer Lock	Male Luer Lock	Male Luer Lock
Sample Tubing Volume	381µL	306.42µL	306.42µL
Transfer Tubing	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable
Transfer Connection	Tube Fuse	Male Luer Lock	Male Luer Lock
Tubing Diameter	C-Flex® ID: 1/8" (3.1mm), OD: 1/4" (6.35mm)	C-Flex® ID: 1/8" (3.1mm), OD: 1/4" (6.35mm)	C-Flex® ID: 1/4" (6.35mm), OD: 7/16" (11.1mm)
Tubing Length	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)
Air Filter Ventilation	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	4	4	4

Optimum Growth® 6-Well Plate

Vol. Well	Well Shape	Sterility (SAL)	ANSI-SLAS	Ind. Wrap	Compatible with Capmat/Seal	Case/Qty	Part#
82mL		10 ⁻⁶	Yes	Yes	899410, 899405-1, 899403, 899406	10	931167

Rapid Clear® Cap

Flask Compatibility	Part #	Tubing Connection	Tubing Diameter	Tubing	Tubing Length	Material	Sterility (SAL)	Qty/Case
2.8L & 5L	788116	Transfer Cap	Size 15 silicone tubing, ID: 3/16" (4.76mm), OD: 7/16" (11.1mm)	Chemically resistant, flexible	48" (1219.2mm)	PP (polypropylene)	6-Oct	4

Inversion Transfer Cap Accessories-Ring & Stands

Flask Compatibility	1.6L & 2.8L Optimum Growth®	1.6L & 2.8L Optimum Growth®	5L Optimum Growth®	5L Optimum Growth®
Part #	931609	931700	931606	931607
Stand Height	22"	n/a ring only	22"	n/a ring only
Ring Diameter	5"	5"	7"	7"
Qty/Case	1	1	1	1

Optimum Growth® Flask Carriers

Flask Compatibility	125mL	250mL
Part #	1212900	1212905
Flask Capacity	8	8
Dimensions	10.75" x 5"	13.4" x 6"
Qty/Case	1	1

Optimum Growth® Caps

Flask Compatibility	125mL & 125mL-LE	125mL	250mL	500mL	1.6L, 2.8L & 5L	1.6L, 2.8L & 5L
Part #	TBD	899110	899111	899112	899116	899600-B
Membrane	PTFE Low Evaporation	PTFE	PTFE	PTFE	PTFE	Solid Cap
Pore Size	0.2µm PTFE	0.2µm PTFE	0.2µm PTFE	0.2µm PTFE	0.2µm PTFE	n/a
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	50	50	50	25	24	24

Inversion Transfer Caps

Flask Compatibility	1.6L & 2.8L Optimum Growth®	1.6L & 2.8L Optimum Growth®	1.6L & 2.8L Optimum Growth®	1.6L & 2.8L Optimum Growth®
Part #	931706-4	931710-4	931705-4	931708-4
Tubing Included	no	yes	yes	yes
Connection	7/16" (11.1mm) Male Quick Connect	Male Luer Lock	Tube Fuse (plug on terminus)	Tube Fuse (plug on terminus)
Tubing Diameter	n/a	C-Flex® 16	C-Flex® 16	C-Flex® 24
Tubing	n/a	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable
Tubing Length	n/a	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)
Style	Threaded	Threaded	Threaded	Threaded
Material	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)
Air Filter Ventilation	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	4	4	4	4

Inversion Transfer Caps

Flask Compatibility	5L Optimum Growth®	5L Optimum Growth®	5L Optimum Growth®	5L Optimum Growth®	5L Optimum Growth®
Part #	931594-4	931596-4	931616-4	931595-4	931598-4
Tubing Included	no	no	yes	yes	yes
Tubing Connection	1/4" (6.35mm) Barb	7/16" (11.1mm) Quick Connect	Male Luer Lock	Tube Fuse (plug on terminus)	Tube Fuse (plug on terminus)
Tubing Diameter	n/a	n/a	C-Flex® 16	C-Flex® 16	C-Flex® 24
Tubing	n/a	n/a	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable
Tubing Length	n/a	n/a	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)
Style	Threaded	Threaded	Threaded	Threaded	Threaded
Material	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)
Air Filter Ventilation	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	4	4	4	4	4

Bidirectional Transfer Caps

Flask Compatibility	1.6L Optimum Growth®	1.6L Optimum Growth®	2.8L Optimum Growth®	5L Optimum Growth®	5L Optimum Growth®	7L Optimum Growth®
Part #	931702-8	931704-8	931804-8	931618-8	931614-8	931470-8
Tubing Included	yes	yes	yes	yes	yes	yes
Tubing Connection	Male Luer Lock	Tube Fuse (plug on terminus)	Male Luer Lock	Male Luer Lock	Tube Fuse (plug on terminus)	Male Luer Lock
Tubing Diameter	C-Flex® 16	C-Flex® 16	C-Flex® 16	C-Flex® 16	C-Flex® 16	C-Flex® 16
Tubing	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable	Chemically resistant, heat sealable
Tubing Length	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)
Style	Threaded	Threaded	Threaded	Threaded	Threaded	Threaded
Material	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)	PP (polypropylene)
Air Filter Ventilation	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter	0.2µm PTFE vent filter
Sterility (SAL)	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Qty/Case	8	8	8	8	8	8

C-Flex® 16 ID: 1/8" (3.1mm), OD: 1/4" (6.35mm) | C-Flex® 24 ID: 3/16" (4.76mm), OD: 7/16" (11.1mm)

In-line Filter

Description	Sterile	Filter Membrane	Case/Qty	Part#
50mm In-line Filter	Yes	0.2µm PTFE	10	761050-10

Standard|Filter Vial Snap Cap

Membrane	PTFE	PTFE	PVDF	PVDF	NYLON	NYLON	PES
Pore Size	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm
Cap Color	green	blue	red	yellow	black	pink	grey
Cap Style	snap-cap	snap-cap	snap-cap	snap-cap	snap-cap	snap-cap	snap-cap
Septum	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit
Fill Vol.	450µL	450µL	450µL	450µL	450µL	450µL	450µL
Dead Vol.	120µL	120µL	120µL	120µL	120µL	120µL	120µL
Part #	35530	35540	35531	35541	35538	35539	35535
Qty/Case	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500

Standard|Filter Vial Screw Cap

Membrane	PTFE	PTFE	PVDF	PVDF	NYLON	NYLON	PES
Pore Size	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm
Cap Color	green	blue	red	yellow	black	pink	grey
Cap Style	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap
Septum	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit
Fill Vol.	450µL	450µL	450µL	450µL	450µL	450µL	450µL
Dead Vol.	120µL	120µL	120µL	120µL	120µL	120µL	120µL
Part #	34430	34440	34431	34441	34438	34439	34435
Qty/Case	100	100	100	100	100	100	100

eXtreme|FV® Snap Cap

Membrane	PTFE	PTFE	PVDF	PVDF	NYLON	NYLON	PES
Pore Size	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm
Cap Color	green	blue	red	yellow	black	pink	grey
Cap Style	snap-cap	snap-cap	snap-cap	snap-cap	snap-cap	snap-cap	snap-cap
Septum	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit
Fill Vol.	450µL	450µL	450µL	450µL	450µL	450µL	450µL
Dead Vol.	120µL	120µL	120µL	120µL	120µL	120µL	120µL
Part #	85530	85540	85531	85541	85538	85539	85535
Qty/Case	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500

eXtreme|FV® Screw Cap

Membrane	PTFE	PTFE	PVDF	PVDF	NYLON	NYLON	PES
Pore Size	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm
Cap Color	green	blue	red	yellow	black	pink	grey
Cap Style	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap
Septum	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit
Fill Vol.	450µL	450µL	450µL	450µL	450µL	450µL	450µL
Dead Vol.	120µL	120µL	120µL	120µL	120µL	120µL	120µL
Part #	84430	84440	84431	84441	84438	84439	84435
Qty/Case	100	100	100	100	100	100	100

Low Evap|Filter Vial

Membrane	PTFE	PTFE	PVDF	PVDF	NYLON	NYLON	PES
Pore Size	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm
Cap Color	green	blue	red	yellow	black	pink	grey
Cap Style	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap	screw-cap
Septum	non-slit	non-slit	non-slit	non-slit	non-slit	non-slit	non-slit
Fill Vol.	450µL	450µL	450µL	450µL	450µL	450µL	450µL
Dead Vol.	120µL	120µL	120µL	120µL	120µL	120µL	120µL
Part #	64430	64440	64431	64441	64438	64439	64435
Qty/Case	100	100	100	100	100	100	100

nano|Filter Vial® Non-Slit

Membrane	PTFE	PTFE	PVDF	PVDF	NYLON	NYLON	PTFE	PES
Pore Size	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm	0.2µm	0.2µm	0.2µm
Cap Color	green	blue	red	yellow	black	black	green	grey
Cap Style	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap
Septum	non-slit	non-slit	non-slit	non-slit	non-slit	non-slit SIL PP	non-slit PTFE SIL PTFE	non-slit
Fill Vol.	250µL	250µL	250µL	250µL	250µL	250µL	250µL	250µL
Dead Vol.	8µL	8µL	8µL	8µL	8µL	8µL	8µL	8µL
Part #	15530	15540	15531	15541	15538	14638	14930	15535
Qty/Case	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500	100	100	200 & 500

nano|Filter Vial® Pre-Slit

Membrane	PTFE	PTFE	PVDF	PVDF	NYLON	PES
Pore Size	0.2µm	0.45µm	0.2µm	0.45µm	0.2µm	0.2µm
Cap Color	green	blue	red	yellow	black	grey
Cap Style	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap
Septum	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit	pre-slit
Fill Vol.	250µL	250µL	250µL	250µL	250µL	250µL
Dead Vol.	8µL	8µL	8µL	8µL	8µL	8µL
Part #	25530	25540	25531	25541	25538	25535
Qty/Case	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500	200 & 500

High Viscosity Filter Vial Presses

Press	Description	Capacity	Qty	Part #
Toggle Press	5 Position for Autosampler Ready Filter Vials	5	1	35005
Multi-Use Press	48 Position for Autosampler Ready Filter Vials	48	1	35015

Empty Columns

Description	Case/Qty	Part #
Empty SINGLE StEP® Fritted column w/10 each size: 10mL, 25mL, 50mL, 100mL, 200mL	50	94520-10
Empty SINGLE StEP® Column 10mL or 4g Reservoir with Frit	10	9452086-10
	100	9452086-100
Empty SINGLE StEP® Column 25mL or 12g Reservoir with Frit.	10	9452088-10
	100	9452088-100
Empty SINGLE StEP® Column 50mL or 25g Reservoir with Frit.	10	9452090-10
	100	9452090-100
Empty SINGLE StEP® Column 100mL or 40g Reservoir with Frit.	10	9452092-10
	100	9452092-100
Empty SINGLE StEP® Column 200mL or 80g Reservoir with Frit.	10	9452094-10
	100	9452094-100
Empty SINGLE StEP® Column 320mL or 160g Reservoir with Frit.	10	9452099
Empty SINGLE StEP™ Column 600mL or 300g Reservoir w/5mL Bottom Resin Reservoir w/Frit	10	9452097-B

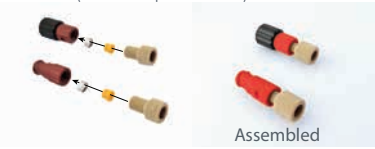

Frits

Head Space Frits for 4g SINGLE StEP® Column	100	491250
Head Space Frits for 12g SINGLE StEP® Column	100	491252
Head Space Frits for 25g SINGLE StEP® Column	100	491253
Head Space Frits for 40g SINGLE StEP® Column	100	491254
Head Space Frits for 80g or 90g SINGLE StEP® Column	100	491256
Head Space Frits for 110g or 160g SINGLE StEP® Column	100	491258
Head Space Frits for 240g or 300g SINGLE StEP® Column	100	491260

Accessories

Dual Ended PP Cap Blue	100	235008
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Accessories not sold by Thomson

Tubing Size to Adapt SINGLE StEP® Column to FPLC, AKTA	Upchurch PN#*	Cole-Parmer® PN#*
1/8th line (obsolete p/n 295821) 	LT-215 P-359 P-658 P-655	EW-02022-43 EW-02023-15 EW-02014-14 EW-02014-12
1/16th line (obsolete p/n 295823) 	P-656 P-659	P-656 P-659




Not all parts may be needed for your set up.

*Thomson Instrument Company is not affiliated with Upchurch, Cole-Parmer® or their products

Collection Plates

Vol. Well	Well Shape	Sterility (SAL)	ANSI-SLAS	Ind. Wrap	Compatible with Capmat/Seal	Case/Qty	Part#
6-Well							
82mL		10 ⁻⁶	Yes	Yes	899410, 899405-1, 899403, 899406	10	931167
24-Well							
10.4mL		10 ⁻⁶	Yes	Yes	899410, 899405-1, 899403, 899406	20	931565-G-1X
10.4mL		10 ⁻⁶	Yes	Yes	Lid Included	20	931568
10.8mL		10 ⁻⁶	Yes	Yes	899410, 899405-1, 899403, 899406	20	931569-G-1X
10.8mL		10 ⁻⁶	Yes	Yes	Lid Included	20	931571
96-Well							
500µL		non-sterile	*Yes	No	899410, 899403, 899406, 359747, 899405-1	50	9356045
650µL		non-sterile	Yes	No	899410, 899405-1, 899403, 899406	50	931512B
2mL		non-sterile	*Yes	No	899410, 899405-1, 899403, 899406, 359747	50	951657
2mL		10 ⁻⁶	*Yes	Yes	899410, 899405-1, 899403, 899406, 359747	20	951657-S20
2mL		non-sterile	†Yes	No	899410, 899405-1, 899403, 899406, A210100	20	931130
2mL		10 ⁻⁶	†Yes	No	899410, 899405-1, 899403, 899406, A210100	20	931130-S
2mL		10 ⁻⁶	Yes	Yes	899410, 899405-1, 899403, 899406, A210100	20	931133
2mL		10 ⁻⁶	Yes	Yes	Lid Included	20	931137

Filter Plates

Vol. Well	Well Shape	Sterility (SAL)	ANSI-SLAS	IW	Filter Membrane	Collection Plate	Case/Qty	Part#
24-Well Filter Plates								
10.8mL		non-sterile	Yes	No	25µm Polypropylene	931565-G-1X, 931568, 931569-G-1X, 931571	20	921550
~9mL		10 ⁻⁶	Yes	No	0.2µm Rapid Clear®	931565-G-1X, 931568, 931569-G-1X, 931571	20	921546
96-Well Filter Plates								
2mL		10 ⁻⁶	Yes	No	0.2µm Rapid Clear®	931130	20	921746
2mL		non-sterile	Yes	No	25µm Polypropylene	931130	25	931919
2mL		non-sterile	Yes	No	0.2µm PTFE	931130	20	921730
2mL		non-sterile	Yes	No	0.45µm PTFE	931130	20	921740
2mL		non-sterile	Yes	No	0.2µm PVDF	931130	20	921731

* Meets ANSI-SLAS plate dimensions

† Irreversible Plate

Notes:

Notes: