

# TRIFOREST SHAKER FLASKS



## Autoclavable Labware

Fernbach Flasks

Erlenmeyer Flasks

Distributed by

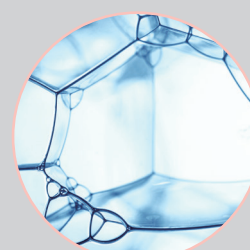


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*Innovative Life Sciences Tools*



## Autoclavable Labware



### Sterile | Individually Wrapped

TriForest Erlenmeyer baffled base flasks series come individually packaged in easy-tear bags and pre-sterilized through gamma radiation to ensure maximum sterility and tamper-evidence.

### Suitable with SI series products

#### Winpact Shaking Incubator



\*For reference only, subject to practice.

Cat. No.	SI-200	SI-100*
Platform size	460 x 460 mm	254 x 254 mm
Shaking orbit	0.7" (19 mm)	
Speed range	20-500 rpm	
Speed increment	1 rpm	
Communication port	RS-485	
External temperature probe	PT-100	
Heating temperature range	Ambient +5°C to 65°C	
Power	600W	
Temp accuracy and uniformity	± 0.25°C at 37°C	
Timer	999 (hr) : 59 (min) / Continuous	
Display	3.5" Color TFT LCD screen	
Dimension (W x L x H)	Approx. 590 x 820 x 530 mm	Approx. 640 x 384 x 395 mm
Weight	70 kg	20 kg
Rated voltage	110 / 220V~, 50 / 60Hz, 6.3A	

TRIFOREST SHAKER FLASKS



## Polycarbonate Erlenmeyer Flask (Baffled Base)

### Features of TriForest Shaker Flasks:

- Ideal replacement for glass and other Erlenmeyer/shaker flasks.
- Patented DuoCAP® allows sterile air exchange or a leak-proof seal.
- Minimize oxidation or pH shifts.
- Perform aerobic/anaerobic culture.
- Available with septum cap for pathogen containment.
- Re-autoclavable, reusable.
- Individually Packed in EZ-Tear bags. Sterile to SAL 10-6
- Choose baffled base flasks when increased levels of oxygenation and mixing are required.



Optically Clear



Shatterproof



Leakproof



Standard Cap

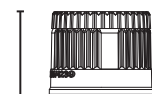


Autoclavable

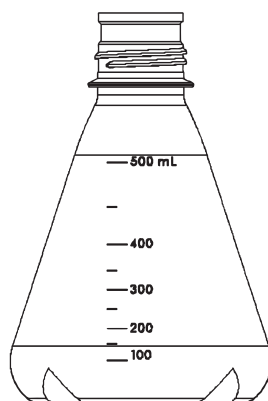
Baffled Base



DATASHEET

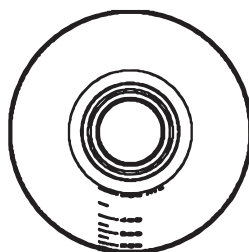


C



A

B



### Erlenmeyer Flasks

The Polycarbonate Erlenmeyer flasks are individually wrapped in an easy tear, sterile bag, certified to be free of particulate matter, pyrogens, and nucleases (DNase/ RNase). These flasks are ideal for all suspension cell cultures including baculovirus cultures, microbial cultures, algae cultures, media preparation, storage, and all related applications. In addition to the TriForest shaker flask clamps, they fit all standard shaking incubator systems and can be placed on any platform.

TRIFOREST SHAKER FLASKS

Flask Dimension	Baffled Base Cat.	FBC2000S	FBC1000S	FBC500S	FBC250S	FBC125S
Size / Volume		2000 ml	1000 ml	500 ml	250 ml	125 ml
A • Base Diameter		165 mm	137 mm	105 mm	83 mm	71 mm
B • Height (w/o Cap)		265 mm	204 mm	156 mm	133 mm	105 mm
C • Height (w/ Cap)		276.8 mm	215.8 mm	165.3 mm	142.3 mm	114.3 mm





## INNOVATIVE CULTIVATION SOLUTIONS

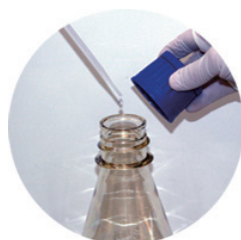
### Specification

Baffled Base Cat.	FBC2000S	FBC1000S	FBC0500S	FBC0250S	FBC0125S
Size / Volume	2000 mL	1000 mL	500 mL	250 mL	125 mL
Closure	53B	53B	38/430	38/430	38/430
Cap Type	DuoCAP®	DuoCAP®	DuoCAP®	DuoCAP®	DuoCAP®
Units / Pack	6	6	12	12	24
Packs/Case (Total Units)	4(24)	4(24)	4(48)	6(72)	6(144)



### Patented DuoCAP® System

Standard with all TriForest Shaker Flasks, it allows aerobic/anaerobic culture of microbes and algae without replacing the cap. The 0.22  $\mu$ m PTEE filter allows sterile exchange of gases and air.



Add Culture Media  
& Inoculum



Add DuoCAP™ for  
Anaerobic Culture



Remove  
dustguard cover  
for Aerobic Culture

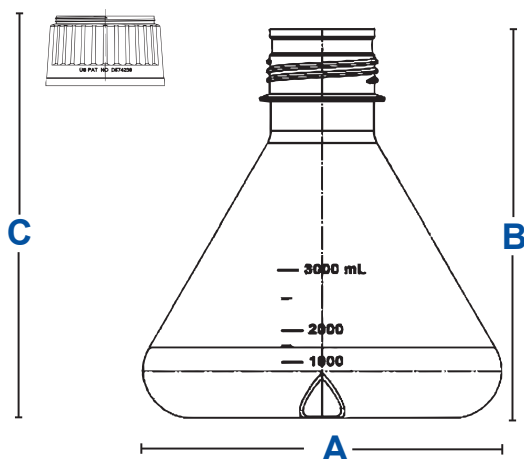


Move to Shaker  
Incubator

Ideal for suspension cell culture of plants, mammals, microbes and media preparation.



### Polycarbonate Fernbach Flask (Baffled Base)



### DATASHEET



#### Flask Dimension

Baffled Base Cat.	FBC3000S
Size / Volume	3000 ml
A • Base Diameter	230.5 mm
B • Height (w/o Cap)	250 mm
C • Height (w/ Cap)	260 mm



## Polycarbonate Fernbach Flask (Baffled Base)

### Features of TriForest Shaker Flasks:

- Ideal replacement for glass and other Fernbach/shaker flasks.
- Patented DuoCAP® allows sterile air exchange or a leak-proof seal.
- Minimize oxidation or pH shifts.
- Perform aerobic/anaerobic culture.
- Available with septum cap for pathogen containment.
- Re-autoclavable, reusable.
- Individually Packed in EZ-Tear bags. Sterile to SAL 10-6
- Choose baffled base flasks when increased levels of oxygenation add mixing are required.



### Specification Ideal for all shaker / suspension culture.

Baffled Base Cat.	FBC3000S	FBC7000S
Size / Volume	3000 mL	7000 mL
Closure	69B	53B
Suggested Culture Volume	≤1900ml	≤4000ml
Units / Pack	3	1
Packs/Case (Total Units)	4(12)	2(2)



Optically Clear



Autoclavable



Leakproof



Shatterproof



Standard Cap

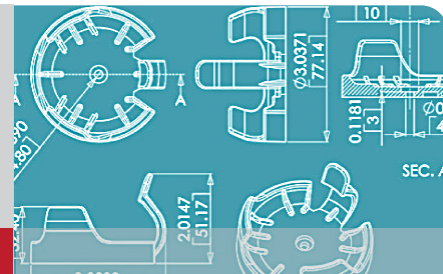


### Fernbach Flasks

TriForest Fernbach culture flasks are sterile and designed for single use, however, it can be autoclaved and reused multiple times. They are ideal for all shaker/suspension culture. Like all TriForest Erlenmeyer flasks, the 3L Fernbach flasks come with the patented DuoCAP®. They are certified pyrogen and nuclease free. These flasks are available with or without baffles and are a complementary addition to TriForest Erlenmeyer Family.



TRIFOREST SHAKER FLASKS



## INNOVATIVE CULTIVATION SOLUTIONS

**\*\*Customized Specification, the price please contact Major Science.**



### Closure Systems & Accessories

#### Standard Cap

Provides closures to polycarbonate square, round media bottles, PC vials and culture tubes. Blue is the standard color for all caps though custom colors are available upon request.



Catalog #	CPC-53	CPC-38	CPC-24	CPC-20
Neck Finish	53B	38/430	24/415	20/415
Units/Case	192	384	384	384

#### Tamper Evident Cap

Standard sealing method for all TriForest PETG products and polycarbonate media bottles. Tamper-evidence ensures and serves as proof of content containment. Ideal for consumables. Standard is blue.



Catalog #	TECG-53	TECG-38	TECG-24	TECG-20
Neck Finish	53B	38/430	24/415	20/415
Units/Case	192	288	384	384

#### Vented DuoCap®

Accompanies both baffled flasks of all sizes. Also available for media bottles. Constructed in standard blue polypropylene with a PTFE 0.22 µm membrane. Ideal for aerobic/anaerobic cell culture.



Catalog #	DCPC-69*	DCPC-53	DCPC-38
Neck Finish	69B*	53B	38/430

\*The Vented DuoCAP 69B DCPC-69 is the only cap option for TriForest FBC3000S Fernbach Flasks

#### Septum Cap

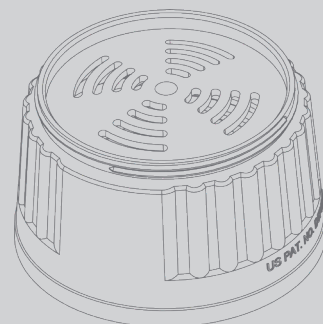
Serves as closure for flasks and media bottles. This cap comes in standard blue polypropylene with gray butyl rubber. Ideal for injectibles, especially pathogenic media.

Catalog #	SCPC-53	SCPC-38
Neck Finish	53B	38/430
Units/Case	192	288

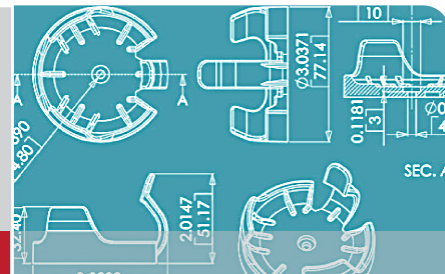


### Accessories - Caps

TriForest closures are made with FDA approved, high-density polypropylene and polyethylene. They are autoclavable, reusable and recyclable. All caps are linerless with integrally-molded seal ring to ensure leak proof on performance. They are manufactured in Class 10K cleanroom environment and are supplied non-sterile as well as sterilized by gamma radiation.



TRIFOREST SHAKER FLASKS



## INNOVATIVE CULTIVATION SOLUTIONS

**\*\*Customized Specification, the price please contact Major Science.**

### Septum DuoCAP®

This cap is an ingenious combination of our TriForest septum Cap and vented DuoCAPs™. It provides an additional layer of protection to the standard septum caps.

Catalog #	DCSC-53	DCSC-38
Neck Finish	53B	38/430
Units/Case	192	288



### Port Cap

Given the multiple port needs of our customers, we have designed the port cap in autoclavable polypropylene. It contains four ports that could be used simultaneously or separately. Port covers included.

Catalog #	PHC-53S (4 ports)	PHC-38S (3 ports)
Neck Finish	53B	38/430
Units/Case	1	1



### Shaker Flask Clamps

*\*The shaker flask clamps are only available for TriForest Erlenmeyer Flasks*

TriForest polypropylene shaker clamps are carefully engineered to provide both clipping elasticity and motion resistance in one product. Featuring a non-scratch design, our shaker clamps come in standard blue color accompanied by stainless steel screws and washers. Our clamps fit all industry standard shaking incubators and are autoclavable for reuse.



Screw clamp on shaker platform



Snap shaker flask in clamp



Shaking of cell culture

Catalog #	SFC2000	SFC1000	SFC500	SFC250	SFC125
Size (mL)	2000	1000	500	250	125
Height (mm)	89.57 mm	74.5	63.14	57.63	51.17
Diameter (mm)	169.10 mm	143.9	111.6	90.4	74.72



# TRIFOREST SHAKER FLASKS



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