



# CHASE SCIENTIFIC SUMMER SPECTACULAR



 Chase Scientific Glass Group



## Announcing the latest addition to National Scientific's line of polypropylene autosampler vials...

### NEW TARGET DP® POLYPROPYLENE MICROVIALS™

The perfect choice for samples that are incompatible with glass, these new 12 x 32mm molded single-piece polypropylene vials provide working volumes from <math><5\mu\text{L}</math> to 300 $\mu\text{L}</math>, are compatible with all Target DP screw thread closures, and include many other features designed to make automated limited volume sampling easier.$

03-340-620 Series

- High-quality molding process produces a clean recessed break with no burrs or other protrusions that could cause autosampler jams
- Mandrel reservoir design allows for maximum sample extraction and working volumes from <math><5\mu\text{L}</math> to 300 $\mu\text{L}</math>$
- Large Target opening simplifies vial filling
- Four-radiating-fin base provides high stability in autosampler trays or on benchtops
- External neck width is smaller, creating a greater clearance for robotic autosamplers to grasp the vial, thus eliminating instrument stalls or skipped injections
- Sharp shoulder on neck profile mimics that of a glass vial, assuring compatibility with all autosamplers—the Target DP product line has the only polypropylene vials that are shaped like glass vials!
- Available in Vials Only, Convenience Kits (vials and caps), and Assembled Kits (vials with PTFE/silicone caps already assembled)

Description	Fisher Cat. No.	Pack of 100	Case of 1000
300 $\mu\text{L}$ Target DP Polypropylene Vial	03-340-620	16.70	167.00
300 $\mu\text{L}$ Target DP Polypropylene Vial Convenience Kit, Blue Caps with PTFE/Silicone Septa	03-340-621	37.30	—
300 $\mu\text{L}$ Target DP Polypropylene Vial Convenience Kit, Blue Caps with Pre-Slit PTFE/Silicone Septa	03-340-622	43.95	—
300 $\mu\text{L}$ Target DP Polypropylene Vial Convenience Kit, Black Bonded Caps with PTFE/Silicone Septa	03-340-623	38.90	—
300 $\mu\text{L}$ Target DP Polypropylene Vial Assembled Kit, Blue Caps with PTFE/Silicone Septa	03-340-624	42.10	—

### TARGET® COLORBAND™ WIDE OPENING CRIMP TOP VIALS—2mL, 12 x 32mm

- Wide opening vial is easier to fill
- Fit most autosamplers that accommodate the 12 x 32mm vial format
- Uniformly flat bottom for security with inserts
- Superior quality 33 expansion borosilicate clear glass (Type 1, Class A)
- Feature color-coded graduated write-on patch
- Use with 11mm aluminum seal closures



03-375-3 Series

Maximum Fill Volume	Description	Finish	Fisher Cat. No.	Pack of 100	Case of 2000
1.8mL	Target ColorBand 2mL Clear Glass Vial w/Blue Patch	Crimp	03-375-3JJ	17.62	322.16
1.8mL	Target ColorBand 2mL Clear Glass Vial w/Green Patch	Crimp	03-375-3KK	17.62	322.16
1.8mL	Target ColorBand 2mL Clear Glass Vial w/Red Patch	Crimp	03-375-3LL	17.46	322.16
1.8mL	Target ColorBand 2mL Clear Glass Vial w/Yellow Patch	Crimp	03-375-3MM	17.72	322.16

### ALUMINUM CRIMP SEALS WITH PREFITTED SEPTA FOR 12 x 32mm VIALS

- Anodized aluminum seals fit all 11mm crimp top vials
- Viton® septa perform well with ECD detectors and are resistant to many aggressive solvents
- Seal 2000® is specially formulated for improved background performance over PTFE/Red Rubber

Seal Color	Septum Material	Comment	Fisher Cat. No.	Pack of 100	Case of 1000
Silver	Clear PTFE/Red Rubber	Standard GC septum	06-406-19B	—	94.25
Blue	Clear PTFE/Red Rubber	Standard GC septum	06-406-19H	15.81	143.36
Red	Clear PTFE/Red Rubber	Standard GC septum	06-406-19K	15.64	143.84
Green	Clear PTFE/Red Rubber	Standard GC septum	06-406-19J	15.74	143.84
Yellow	Clear PTFE/Red Rubber	Standard GC septum	06-406-19L	15.74	143.84
Silver	Red PTFE/White Silicone/Red PTFE	For Aggressive Solvents	06-406-19C	32.05	313.64
Silver	Polypropylene	For Corrosive Solvents	06-406-19T	—	179.07
Silver	Red PTFE/White Silicone	High Purity Septum	06-406-19D	29.12	242.40
Silver	Black Viton Elastomer	ECD, High Chemical Resistance	03-378-343	40.08	386.30
Silver	Seal 2000	High Purity GC septum	03-377-91	18.24	165.82
Blue	Seal 2000	High Purity GC septum	03-378-345	15.42	148.60
Green	Seal 2000	High Purity GC septum	03-378-346	14.97	144.30
Red	Seal 2000	High Purity GC septum	03-378-344	14.98	144.40
Yellow	Seal 2000	High Purity GC septum	03-378-348	16.19	155.92



Standard and High Purity GC Septum

06-406-19C, -19T, -19D; 03-378-343

# SUN-SRI Solutions for Headspace Analysis

## HEADSPACE VIALS, CAPS, AND SEALS

SUN-SRI's Headspace Solutions are the best products for your application. All of the high-quality vials, caps, seals, and screw thread closures are engineered to meet or exceed original manufacturer's equipment specifications and to optimize efficiencies in the laboratory—saving you time and money. Some of the most popular consumables are listed here; contact your Fisher Scientific Customer Service Representative at 1-800-766-7000 for information on SUN-SRI's complete line!

### 20MM CRIMP TOP AND 18MM SCREW TOP HEADSPACE VIALS

- Clear or amber vials available with 20mm crimp seal finish
- 10 and 20mL clear glass vials available with 18mm screw thread finish
- Vials are designed with a round bottom that is more easily handled by robotic arms
- Compatible with Gerstel® and CTC/Leap Technologies™ headspace samplers when used with magnetic closures
- Beveled-edge finish on crimp top vials provides for a sturdy rim that presses into the septum for a more effective seal

Description	O.D. x H	Fisher Cat. No.	Pack of
10mL Clear 20mm Crimp Top Vial	22 x 45mm	14-823-530	125/32.74
20mL Clear 20mm Crimp Top Vial	22 x 75mm	14-823-340	100/28.21
20mL Amber 20mm Crimp Top Vial	22 x 75mm	14-823-531	125/52.79
10mL Clear 18mm Screw Top Vial	22 x 45mm	14-823-532	125/50.78
20mL Clear 18mm Screw Top Vial	22 x 75mm	14-823-533	125/65.29



14-823-531

14-823-532 and -533

14-823-340

22-030-215

### CRIMP CAPS

- Two-part composite caps feature an aluminum skirt that makes the closures easier to both crimp and remove

Description	Fisher Cat. No.	Pack of
20mm Tin Plate Crimp Cap, without Septum	22-034-087	1000/79.66
20mm Tin Plate/Blue Aluminum Two-Part Crimp Cap, without Septum	22-030-213	500/40.75
20mm Tin Plate/Silver Aluminum Two-Part Crimp Cap, without Septum	22-030-214	500/41.15
20mm Tin Plate/Red Aluminum Two-Part Crimp Cap, without Septum	22-030-215	1000/96.45
20mm Tin Plate/Blue Aluminum Two-Part Crimp Cap, with PTFE/Silicone Septum	22-030-207	500/362.55
20mm Tin Plate/Silver Aluminum Two-Part Crimp Cap, with PTFE/Silicone Septum	22-030-208	500/362.55
20mm Tin Plate/Red Aluminum Two-Part Crimp Cap, with PTFE/Silicone Septum	22-030-209	500/362.55



Magnetic Crimp Caps

### MAGNETIC SCREW THREAD CLOSURES

- Fit both the 10mL and 20mL Screw Thread Headspace Vials
- Use magnetic seals with CTC/Gerstel®, Leap Technologies™, and other magnetic transport autosamplers



Magnetic Screw Thread Closures

Description	Fisher Cat. No.	Pack of 100
18mm Magnetic Screw Thread Closure, with PTFE/Silicone Septum	22-030-205	47.25
18mm Magnetic Screw Thread Closure, with PTFE/Chlorobutyl Septum	22-030-206	34.15
18mm Magnetic Screw Thread Closure, with SPME Septum	22-030-204	39.15

### SEPTA

- Septa for special applications are compatible with all 20mm magnetic and nonmagnetic crimp seals

Description	Application	Fisher Cat. No.	Pack of
20mm Red Silicone/Aluminum Face Seal, 3mm Thick	For temperatures >170°C	22-030-210	500/270.90
20mm High-Purity Silicone/PTFE Seal	For liquid-liquid extraction and trace analysis	22-030-211	100/73.95
20mm Silicone/PTFE Ultraclean Seal, 3mm Thick	For temperatures up to 250°C	22-030-212	250/175.40
20mm Blue Silicone/PTFE Seal, 1.01mm Thick	—	14-823-423	500/240.78

### ELECTRONIC CRIMPERS AND DECRIMPERS

- Ergonomically designed, handheld electronic crimpers and decrimpers with quick and easy push-button operation
- Attach or remove aluminum seals from 11mm and 20mm microsampling vials while vials remain in most standard sample trays
- Both crimpers and decrimpers include adjustable settings to allow for septa with varying thicknesses and compatibility with most vial/septum/seal combinations
- Operate on a Black & Decker® 3.6V VersaPak® Gold Rechargeable Battery Module that easily snaps into the instrument
- Wall plug charger included



03-340 Series

Description	Fisher Cat. No.	Each
11mm Electronic Crimper	03-340-900	639.55
11mm Electronic Decrimper	03-340-901	642.60
20mm Electronic Crimper	03-340-903	631.90
20mm Electronic Decrimper	03-340-902	642.60

## SUN-SRi Dissolution Products

### TEST VESSELS

- Precision formed with flat flange and hemispherical bottom
- Serialized
- 14-823-122 Vessel has graduations in 50mL increments from 400mL to 1000mL
- Manufactured from Type 1, Class A borosilicate glass
- Meet all specifications of USP XXIV, Monograph 711



22-037-015



14-823-122



14-823-121

Description	Fisher Cat. No.	Each
1000mL Clear Vessel without Graduations	22-037-015	71.96
1000mL Clear Vessel with Graduations	14-823-122	126.87
1000mL Amber Vessel without Graduations	14-823-121	157.50

### TESTING CANNULAE

- Angled for easy access to samples
- Manufactured of Type 316 stainless steel
- Luer-Lok® connection for easy attachment
- Tip sleeve allows secure filter attachment

Description	Fisher Cat. No.	Each
Cannula with 4 3/8" Needle for 900mL Volume	14-823-277	70.57
Cannula with 7 1/2" Needle for 500mL Volume	14-823-278	75.59

14-823-278

14-823-277

14-823-126

14-823-124



Dissolution Filters

### SUNFLO™ DISSOLUTION FILTERS

- Manufactured of Ultra High Molecular Weight (UHMW) foamed porous polyethylene
- Full flow design removes small particulates
- Fit securely on the end of 1/8" cannulae or sample probes

Description	Fisher Cat. No.	Pack of 100	Case of 1000
10µm Filter	14-823-268	64.11	—
10µm Filter	14-823-269	—	556.10
20µm Filter	14-823-275	64.11	—
20µm Filter	14-823-274	—	556.10
35µm Filter	14-823-266	63.50	—
35µm Filter	14-823-267	—	556.10
45µm Filter	14-823-273	64.11	—
45µm Filter	14-823-272	—	556.10
70µm Filter	14-823-270	64.11	—
70µm Filter	14-823-271	—	561.75

### DISSOLUTION FLASKS

- Designed specifically for mixing dissolution test solutions
- Type 1, Class A borosilicate glass
- Calibrated "To Contain" and "To Deliver"
- Permanently etched graduation lines and a write-on patch
- Meet Federal Specifications NNN-F-289 and ASTM® E288



Capacity	Description	Stopper No.	"To Deliver" Tolerance	"To Contain" Tolerance	Fisher Cat. No.	Each
500mL	Clear Glass	19	±0.40mL	±0.20mL	14-823-124	95.04
900mL	Clear Glass	22	±0.60mL	±0.30mL	14-823-125	82.45
900mL	Amber Glass	22	±0.60mL	±0.30mL	14-823-126	134.60
1000mL	Clear Glass	22	±0.60mL	±0.30mL	14-823-127	83.99

### FILTER TIPS

- Economical dissolution filters
- Manufactured of polyethylene with a limited porous area
- Fit securely on the end of 1/8" cannulae or sample probes



Filter Tips

Description	Fisher Cat. No.	Case of 1000
2µm Filter Tip	14-823-233	196.01
5µm Filter Tip	14-823-234	196.01
45µm Filter Tip	14-823-235	193.10

## EP Scientific Cleaned Containers for Critical Environments

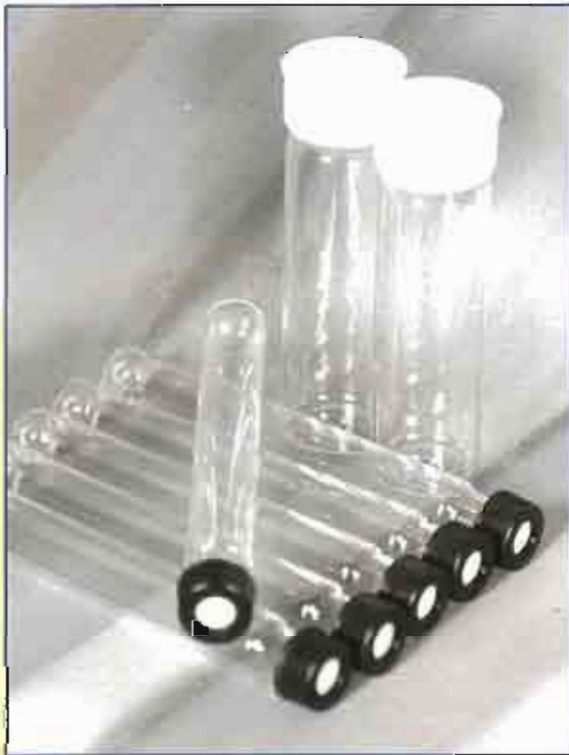
### DEPYROGENATED WIDE-MOUTH GLASS JARS

Specially cleaned to meet endotoxin levels of <math><0.06\text{ EU/mL}</math>. Ideal for storing samples, media, and laboratory reagents. Can also be used for packaging and storing items prior to sterilization. Include polypropylene caps with PTFE liners and a Certificate of Analysis with each lot. Additional low-particle certification is available upon request.

EP Scientific can also depyrogenate any glass container as a service with their validated process. Containers are cleaned in proprietary HEPA-filtered washing equipment with endotoxin-free water, depyrogenated at 250°C, and clean-packaged in HEPA-filtered workstations in Class 100/10 cleanrooms. Available with Certificate of Analysis or Cleaning Certification. Contact your Fisher Scientific Customer Service Representative at 1-800-766-7000 for information.



Depyrogenated Wide-Mouth Clear Glass Jars



TOC Certified Containers

#### APPLICATIONS:

- *USP Method 643 testing*
- *Offline and grab sampling of high-purity water*
- *Preparation and storage of standards*

Description	Capacity	Fisher Cat. No.	Case of
Clear Glass	60mL	12-100-380	24/121.43
Clear Glass	125mL	12-100-381	24/128.97
Clear Glass	2L	12-100-379	6/102.43
Clear Glass	4L	12-100-378	4/100.23
Amber Glass	60mL	12-100-382	24/127.73
Amber Glass	125mL	12-100-383	24/129.52

### TOTAL ORGANIC CARBON (TOC) CERTIFIED CONTAINERS

Unique, low-level-certified vials and bottles for use in Total Organic Carbon testing and sampling. The 40mL autosampler vials fit most TOC instrument autosamplers. Containers are cleaned, certified, and ready to use. Each lot is tested and certified to contribute <math><10\text{ppb}</math> TOC as background and includes a Certificate of Analysis.

Description	Capacity	Fisher Cat. No.	Case of
<b>Open-Top Cap</b>			
Clear Vial w/Cap Cover	40mL	12-100-250	72/262.34
Clear Vial w/Cap Cover	40mL	12-100-370	144/472.22
16 x 125mm Culture Tube	16mL	12-100-376	255/401.83
<b>PTFE-Lined Cap</b>			
Clear Boston Round Bottle	250mL	12-100-373	24/139.45
Amber Boston Round Bottle	125mL	12-100-375	12/74.63
Amber Boston Round Bottle	250mL	12-100-374	12/69.50
Amber Boston Round Bottle	1L	12-100-372	12/108.83

## EP Scientific TOC Specialty Water

High-purity water exceeds 17megohm resistivity with low organic and inorganic impurities at the time of packaging, and is certified to contain <50ppb Total Organic Carbon. Processed by reverse osmosis, activated carbon and ultraviolet TOC reduction; filtered to 0.1µm through hydrophobic membrane filters. EP Scientific's TOC water is packaged in amber glass precleaned containers to maintain purity.

### APPLICATIONS:

- Sample and standards dilution
- Lab blank determination
- Rinsing of sampling equipment

EP Scientific offers other high-grade waters including low-particle, reagent-grade, and pyrogen-free, available by special request. Contact your Fisher Customer Service Representative at 1-800-766-7000 for ordering information.

Description	Capacity	Fisher Cat. No.	Case of
TOC Water in Amber Boston Round Bottle	1L	500-572-8194	12/112.72
TOC Water in Amber Jug	4L	12-100-350	4/95.89



12-100-350

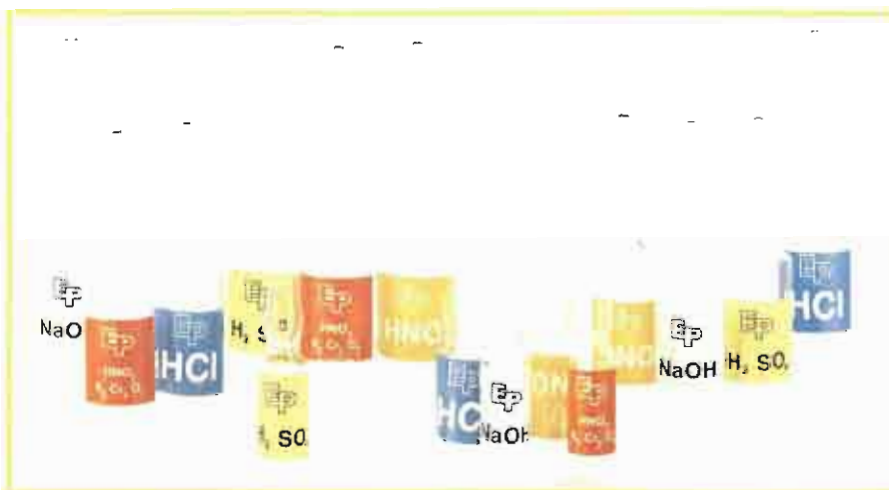


500-572-8194

## EP Scientific Chemical Preservatives in Ampoules

EP Scientific preservatives are the chemical solution for stabilizing your environmental samples. Each preservative is offered with full QA/QC and written certification of purity—simply add a "Q" to the catalog number. All are shipped in compliance with 49 CFR 173.4, and include an MSDS. Packaged in color-coded ampoules that are machine welded for a more consistent, leak-resistant seal; ampoules are also prescored for easier opening (a "breaker" is included with each). Also available in leak-resistant polypropylene vials.

Can't find the preservative amount and ratio you need? EP Scientific can custom mix any preservative to your specifications. For more information on any EP Scientific chemical preservative, contact your Fisher Scientific Customer Service Representative 1-800-766-7000.



Chemical Preservatives in Ampoules

Quantity	Ratio	Concentration	Fisher Cat. No.	Case of 24
<b>Sulfuric Acid, H<sub>2</sub>SO<sub>4</sub></b>				
1mL	Concentrated	96%	500-572-0395	55.47
2mL	Concentrated	96%	500-572-0396	56.81
4mL	1:1	48%	500-572-0430	54.88
5mL	Concentrated	96%	500-572-0397	54.54
<b>Nitric Acid, HNO<sub>3</sub></b>				
1mL	Concentrated	70%	500-572-0399	54.53
2mL	Concentrated	70%	500-572-0400	56.81
10mL	Concentrated	70%	500-572-0402	65.48
<b>Hydrochloric Acid, HCl</b>				
2mL	Concentrated	37%	500-572-0404	56.81
10mL	Concentrated	37%	500-572-0406	65.48
<b>Sodium Hydroxide, NaOH</b>				
2mL	30 Weight % in Water	10 Normal	500-572-0416	56.81
5mL	30 Weight % in Water	10 Normal	500-572-0417	60.56

## I-CHEM™ Bottles for Semi-Volatiles, Pesticide/PCB, and Metal Analysis

### I-CHEM 300, 200, AND 100 SERIES BOSTON ROUND BOTTLES

High-quality Type III glass containers cleaned to EPA standards. I-CHEM 300 Series bottles are processed, assembled, and packaged in strict accordance with I-CHEM Performance-Based Specifications; also include Certificate of Analysis and barcode labels that have the Production and Unique Container Identification Numbers. I-CHEM 200 Series bottles are similar to the 300 Series, but do not include barcode labels and Certificates of Analysis (Certificate of Analysis is available for an additional fee). Production Number is printed on the box description label. I-CHEM 100 Series bottles are manufactured of the same quality materials and have the same materials specifications as the 300 and 200 Series, but are not processed or certified, and do not include barcode or analysis labels.

All I-CHEM Series bottles have polypropylene closures. Caps for 125mL and 250mL sizes are ultrasonically bonded with a 0.125" PTFE-lined silicone liner. Caps for 500mL and 1L sizes are equipped with a friction-fit PTFE liner. Liners are sized to remain firmly in caps.

#### CLEAR GLASS BOTTLES

Excellent for water sampling. Guaranteed to meet the EPA's Performance-Based Specifications for Metals (Group 1) Analysis. The 125mL size is also certified for Semi-Volatiles/Pesticides/PCB's (Group 2) analysis.



300 Series Amber Glass Boston Round Bottles

#### AMBER GLASS BOTTLES

Recommended for UV light-sensitive samples. Guaranteed to meet the EPA's Performance-Based Specifications for Metals (Group 1) Analysis and Semi-Volatiles/Pesticides/PCB's (Group 2) analysis.



300 Series Clear Glass Boston Round Bottles

Capacity	Closure	Fisher Cat. No.	Case of 12
<b>300 Series</b>			
4 oz. (125mL)	22-400	05-719-159	26.13
8 oz. (250mL)	24-414	05-719-163	29.87
16 oz. (500mL)	28-400	05-719-170	37.33
32 oz. (1L)	33-400	05-719-90	48.53
<b>200 Series</b>			
4 oz. (125mL)	22-400	05-719-160	22.72
8 oz. (250mL)	24-414	05-719-164	25.97
16 oz. (500mL)	28-400	05-719-171	32.46
32 oz. (1L)	33-400	05-719-86	42.20
<b>100 Series</b>			
4 oz. (125mL)	22-400	05-719-161	19.32
8 oz. (250mL)	24-414	05-719-165	22.08
16 oz. (500mL)	28-400	05-719-172	27.59
32 oz. (1L)	33-400	05-719-82	35.87

Capacity	Closure	Fisher Cat. No.	Case of 12
<b>300 Series</b>			
4 oz. (125mL)	24-414	05-719-176	26.06
8 oz. (250mL)	24-414	05-719-183	29.78
16 oz. (500mL)	28-400	05-719-78	37.22
32 oz. (1L)	33-400	05-719-91	48.39
<b>200 Series</b>			
4 oz. (125mL)	24-414	05-719-177	22.66
8 oz. (250mL)	24-414	05-719-64	25.90
16 oz. (500mL)	28-400	05-719-75	32.37
32 oz. (1L)	33-430	05-719-87	42.08
<b>100 Series</b>			
4 oz. (125mL)	24-414	05-719-178	19.26
8 oz. (250mL)	24-414	05-719-184	22.01
16 oz. (500mL)	28-400	05-719-70	27.51
32 oz. (1L)	33-430	05-719-83	35.77

## Spectacular Summer Stuff!

Go take a swim! Relax in the sand! Chase Scientific wants you to visit the seashore in style. For a limited time, exclusively through Fisher Scientific, you can stock up on beach gear while stocking up on glassware.

Buy \$250 or more of products featured in this brochure, and receive FREE:

**SUN-SRI Beach Towel**  
**National Scientific T-Shirt**

Buy \$500 or more of products featured in this brochure, and receive FREE:

**SUN-SRI Beach Towel**  
**National Scientific T-Shirt**  
**EP Scientific Folding Chair**

Buy \$750 or more of products featured in this brochure, and receive FREE:

**SUN-SRI Beach Towel**  
**National Scientific T-Shirt**  
**EP Scientific Folding Chair**  
**I-CHEM™ Beach Cooler**



Products must be purchased through Fisher Scientific between May 15 and September 15, 2006. To redeem, fill out the Summer Spectacular Promo Form enclosed in this brochure and fax along with your Fisher Scientific invoice to 1-865-354-3823, Attn: Marketing.

Requests must be received no later than September 30, 2006. Offer valid in U.S. and Puerto Rico only; void where prohibited by law or company policy.

Prices and specifications are subject to change without notice. Call your Fisher Scientific Customer Service Representative for the latest information.



For customer service, call 1-800-766-7000.  
To fax an order, use 1-800-926-1166.  
To order online: [www.fishersci.com](http://www.fishersci.com)



# CHASE SCIENTIFIC SUMMER SPECTACULAR PROMO FORM

Customer Name: \_\_\_\_\_

Company Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

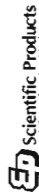
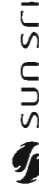
E-mail Address: \_\_\_\_\_

T-Shirt Size (Circle One):    M    L    XL

Products must be purchased through Fisher Scientific between May 15 and September 15, 2006. To redeem, fax this form along with your Fisher Scientific invoice to 1-865-354-3823, Attn: Marketing. Requests must be received no later than September 30, 2006. Offer valid in U.S. and Puerto Rico only; void where prohibited by law or company policy.



Chase Scientific Glass Group



Where clean is critical



Fisher Scientific



Buy **\$250**  
or more and  
receive **FREE**:

- Beach Towel
- T-Shirt

Buy **\$500**  
or more and  
receive **FREE**:

- Beach Towel
- T-Shirt
- Folding Chair

Buy **\$750**  
or more and  
receive **FREE**:

- Beach Towel
- T-Shirt
- Folding Chair
- Beach Cooler