



# Product Information & Pricing

This product information guide provides a broad synopsis of key features and benefits as well as the specifications of Millennial Scientific Products. It also provides the pricing information of these products. For more detailed information on any product or its application, please visit [www.millennialscientific.com](http://www.millennialscientific.com) or contact us at [sales@millennialscientific.com](mailto:sales@millennialscientific.com)



# Product Information & Pricing

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## Company Overview

Millennial Materials & Devices Inc. (do business as Millennial Scientific) is a New York-based company established in 2014. The company's core technology is an advanced materials and manufacturing platform. This technology allows the fabrication of customizable microbeads as performance materials. Current focus harnesses our technology to develop the next-generation all-carbon chromatography products that deliver high-performance extraction, separation, and purification of chemicals and biochemicals. Our products simplify work flow, reducing lab time and solvent use, and significantly lower operational and maintenance costs.

### CORE PRODUCTS

- **NanoPak-C** All Carbon Chromatography Products
- COVID-19 line of RNA extraction kits
- Solid Phase Extraction Columns
- Semi Preparative & Preparative Chromatography Columns
- Analytical Chromatography (HPLC) Columns
- Chromatography Liquid Handling Supplies & Consumables

### SERVICES

- Expert Customized Research & Development
- Method Development, Design and Optimization
- Preparative and Process Scale-Up
- On-site Training & Consulting

### TOP MARKETS & CUSTOMERS

Pharmaceutical & Biologics	Biotechnology
Vaccine Development	DNA/ RNA extraction & purification
Food & Beverage	Forensics
Environmental	Agricultural
Academia & Government	CRO's
Performance Materials	Process Engineering
Precision Manufacturing	

## Deep, Proven Industry Leadership

Our outstanding team includes former Senior Directors at ThermoFisher Scientific, Phase Separations Ltd. & Bracco Diagnostics. Our team's deep domain expertise in carbon nanotechnology, nanomanufacturing and chromatography is our top competitive advantage.

#### Years of Combined Expertise:

- **185+ years** - advanced materials and manufacturing
- **165+ years** - executive management in scientific supplies & instrumentation and life science industries
- **160+ years** - chromatography

## PittCon2020 Excellence Award

*"For projected impact NanoPak-C will have on industry and society"*

## What Sets NanoPak-C Apart

### HIGHLY DIFFERENTIATED TECHNOLOGY

NanoPak-C technology (SBIR-Phase I & II) opens new avenues for extraction, separation and purification of molecules and biomolecules that are outside the capabilities of the current state-of-art.

- Significant improvement for separation of **large molecules**, and **structurally similar compounds, biologics, biobetters or biosimilars**
- Retention of **highly polar & closely related structures** at extreme pHs
- Improved removal of nuisance compounds & impurities

### ADVANTAGES

- Faster more efficient analysis
- Significantly lower costs
- Improved durability
- Reduces solvent use improves sustainability
- Next-generation capabilities can accelerate drug and vaccine discovery
- Solves current pain points for large molecule drug separation (e.g. monoclonal antibodies, nucleic acid therapeutics)
- Customizable, functionalizable
- Scalable from discovery to preparatory
- Materials & consumables from one source

### EXPERT COLLABORATIVE SERVICES

- Our chromatography materials can be tailored for custom research,
- manufacturing, and clinical application project and needs
- Our deep expertise provides strong scientific and technical leadership for research, processing, and development of customizable solutions to meet difficult and unmet needs

## Performance

- 2018- Present: **National Science Foundation** – Developed All-Carbon Stationary Phase Material, Solid Phase Extraction Solutions for COVID-19, Analytical, Semi-Preparative and Preparative Chromatography products and solutions for pharmaceuticals
- 2019-20: **National Institutes of Health** – Developed Scalable Solid Phase Extraction Solutions for Removal of Tannins - interfering nuisance compounds in plant extracts
- 2018-Present: **Manufacturing and Technology Resource Consortium** – Developed Advanced Manufacturing Technologies using Carbon Sources
- 2015 to Present: Vendor and Supplier for **State University of New York at Stony Brook**
- 2018- Present: Strategic partnerships with private firms that are pioneers in development and marketing of chromatography technologies and products for pharmaceutical industries

## Codes

### NAICS

- 325199** Carbon Organic Compounds, Not Specified Elsewhere By Process, Manufacturing
- 541380:** Biological (Except Medical, Veterinary) Testing Laboratories Or Services
- 541380** Laboratory Testing (Except Medical, Veterinary) Services
- 334516** Analytical Laboratory Instrument Manufacturing
- 339113** Laboratory-type sample preparation apparatus manufacturing
- 333999** Centrifuges, industrial and laboratory-type, manufacturing

### NIGP

- 91727:** Contracted Services, Research Subject
- 99231:** Chemical Testing Services

## Company Snapshot



### CERTIFICATIONS

**Minority Business Enterprise (MBE)**  
**Disadvantaged Business Enterprise (DBE)**  
**ISO 9001 2015 Quality Management Systems**  
**ISO 27001 2017 Information Security Management**  
**Startup NY**  
**Long Island Innovation Hot Spot**

### CONTACT

25 Health Sciences Drive, Suite 123  
Stony Brook, NY 11790-3350  
855 388 2800  
[www.millennialsscientific.com](http://www.millennialsscientific.com)  
[sales@millennialsscientific.com](mailto:sales@millennialsscientific.com)

**DUNS ID:** 079613325

**CAGE Code:** 7FXH2

### INDUSTRIES

Nanotechnology, advanced manufacturing, Material and Biological Analytical Testing Separation, filtration, Purification, biotech, pharmaceutical, healthcare

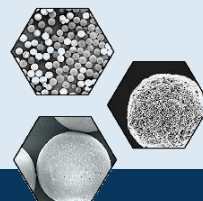
### PARTNERS & SUPPORTERS

#### Government

National Institutes of Health  
National Science Foundation  
New York Empire State Development Corporation

#### Industry

ES Industries, New Jersey





# NanoPak-C All-Carbon Chromatography Products

# NanoPak-C All Carbon Stationary Phase Media

Introductory 20% Off &  
Free Shipping

SKU No.	Amount	Microbead Average Diameter	Particle Size Distribution	Quantity	Price	
MT-12-MG-40-RR-11	2 grams	40-60 $\mu\text{m}$	40% of Average Diameter	1	\$20	\$16
MT-21-MG-40-RR-11	10 grams	40-60 $\mu\text{m}$	40% of Average Diameter	1	\$90	\$72
MT-12-MG-40-RP-11	2 grams	40-60 $\mu\text{m}$	20% of Average Diameter	1	\$30	\$24
MT-21-MG-40-RP-11	10 grams	40-60 $\mu\text{m}$	20% of Average Diameter	1	<del>\$135</del>	\$108

- Carbon Source is Natural Graphite. Custom all-carbon stationary phase media synthesized using other carbon sources such as graphene, carbon nanotubes, fullerenes, carbon black, and activated carbon available. Please inquire.
- Packaging: Plastic Container.

## Key Features

Porous Carbon Network allows reverse phase separation of large molecules, highly polar and closely related structures at extreme pHs

Uniquely Bioinert properties increases column stability and durability at all pHs and high temperatures (up to 90°C)

Fully scalable

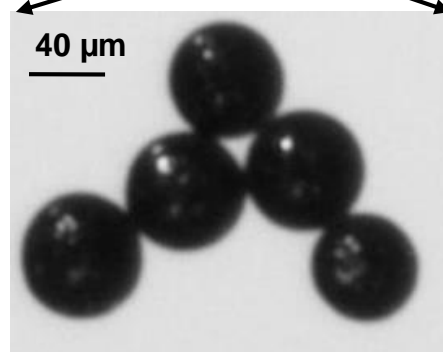
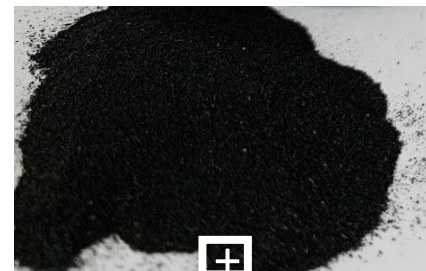
Functionalizable

## Benefits to Customers

- Accelerates Discovery and development of drug pipeline.
- Facilitates Better Purification of nuisance compounds and impurities improving quality control & regulatory compliance
- Reduces workflow time, solvent consumption
- Can be cleaned and sanitized with alkaline washes and reused
- Suitable for solid phase extraction sample preparation to analytical and preparative chromatography
- Reduces costs in operations and maintenance due to improved productivity and reduction in consumables
- Allows affinity and specificity to target molecules or biomolecules.



## NanoPak-C All Carbon Stationary Phase Media

**Microbead  
Average  
Diameter**

40-60 µm

**Particle Size  
Distribution**40% of Average  
Diameter**Application**Solid Phase Extraction (SPE) Sample  
Preparation for Liquid and Gas  
Chromatography

40-60 µm

20% of Average  
DiameterSemi-Preparative, & Preparative High  
Performance Liquid Chromatography  
(HPLC)**Additional Information & Specifications Common To All Microbeads**

Attribute	Specification	Benefits to Customer
Physical Structure	All carbon network	<ul style="list-style-type: none"> <li>Universally hydrophobic surface improves separation efficiency</li> </ul>
Appearance	Spherical beads (black)	<ul style="list-style-type: none"> <li>Spherical shape allows reproducible results</li> </ul>
Functional Group	None	<ul style="list-style-type: none"> <li>Uniform surface chemistry allows reproducible results</li> </ul>
Surface Area (min.)	200 m <sup>2</sup> /g	<ul style="list-style-type: none"> <li>Improves product adsorption &amp; retention</li> </ul>
Carbon Content (%)	99.99	<ul style="list-style-type: none"> <li>Improves stability &amp; surface analyte interaction</li> </ul>
Total moisture	0 - 5 %	<ul style="list-style-type: none"> <li>Allows Reproducible Results</li> </ul>
pH limit stability	0 - 14	<ul style="list-style-type: none"> <li>Allows better separation of polar compounds</li> </ul>
Temperature limit stability	110 °C	<ul style="list-style-type: none"> <li>Improves process efficiency</li> </ul>
Recommended Storage	2°C - Room Temperature (27 °C)	<ul style="list-style-type: none"> <li>Does not require special storage facility</li> </ul>
Expiry date	5 years from date of manufacture	<ul style="list-style-type: none"> <li>Stable</li> </ul>
Porosity	1-10% (tunable)	<ul style="list-style-type: none"> <li>Improves separation Efficiency</li> </ul>
Pore Diameter (Median)	25-1500 Å (Tunable)	<ul style="list-style-type: none"> <li>Improves separation Efficiency</li> </ul>



## NanoPak-C All Carbon Solid Phase Extraction Columns

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SKU No.	Column Type	Media Bed Weight	Quantity	Price	
SN-11-MG-25-RR-31	1 ml	50 mg	100	167	\$133.60
SN-11-MG-31-RR-31	1 ml	100 mg	100	214	\$171.20
SN-13-MG-32-RR-25	3 ml	250 mg	50	193	\$154.40
SN-13-MG-35-RR-25	3 ml	500 mg	50	227	\$181.60
SN-16-MG-35-RR-23	6 ml	500 mg	30	158	\$126.40
SN-16-MG-41-RR-23	6 ml	1000 mg	30	254	\$203.20
SN-MC-MG-33-RR-25	Maxiclean	300 mg	50	218	\$174.40
SN-MC-MG-36-RR-22	Maxiclean	600 mg	25	151	\$121.80
SN-MC-MG-39-RR-22	Maxiclean	900 mg	25	293	\$234.40
<ul style="list-style-type: none"> <li>Carbon Source is Natural Graphite. Custom all-carbon stationary phase media synthesized using other carbon sources such as graphene, carbon nanotubes, fullerenes, carbon black, and activated carbon Available. Please inquire.</li> <li>Packaging: Bulk Bagged in a Corrugated Box.</li> </ul>					

## Key Features

Porous Carbon Network allows separation of large molecules, highly polar and closely related structures at extreme pHs

Uniquely Bioinert properties increases column stability and durability at all pHs and high temperatures (up to 90°C)

Fully scalable

## Benefits to Customers

- Facilitates Better removal of nuisance compounds and impurities improving quality control & regulatory compliance, and increasing chromatographic systems lifetime
- Reduces workflow time, solvent consumption
- Reduces Costs in operations and maintenance due to improved productivity and reduction in consumables
- Can be cleaned and sanitized with alkaline washes and reused
- Suitable for sample preparation for analytical and preparative chromatography





# NanoPak-C All Carbon Solid Phase Extraction Columns

## Additional Information & Specifications

Microbead Average Diameter	40-60 $\mu\text{m}$
Particle Size Distribution	40% of Average Diameter
Surface Area ( $\text{m}^2/\text{g}$ )	100 - 200
Pore Size ( $\text{\AA}$ )	50 - 75
Pore Volume ( $\text{mL/g}$ )	0.2 - 0.8
Number of Frits	2
Frit Average Pore Size	20 $\mu\text{m}$
Column Material Used	Ultra Pure USP Class VI Certified Virgin Polypropylene
Frit Material Used	Ultra Pure USP Class VI Certified Virgin Low Density Polyethylene
Column and Frit Material Free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers	Yes
Autoclavable	Yes
DNase, RNase & Pyrogen free	Prevents risk of contamination errors





# Chromatography & Liquid Handling Consumables

Introductory 20% Off &  
Free Shipping

SKU No.	Column Volume	Frits	Quantity	Price	
MS-SN-11-AC-0F-31	1.5 mL	No Frit	100	<del>\$49</del>	\$39.20
MS-SN-11-AC-1F-31	1.5 mL	1 Frit	100	<del>\$69</del>	\$55.20
MS-SN-11-AC-2F-31	1.5 mL	2 Frits	100	<del>\$89</del>	\$71.20
MS-SN-14-AC-0F-31	4 mL	No Frit	100	<del>\$49</del>	\$39.20
MS-SN-14-AC-1F-31	4 mL	1 Frit	100	<del>\$74</del>	\$59.20
MS-SN-14-AC-2F-31	4 mL	2 Frits	100	<del>\$99</del>	\$79.20
MS-SN-18-AC-0F-31	8 mL	No Frit	100	<del>\$52</del>	\$41.60
MS-SN-18-AC-1F-31	8 mL	1 Frit	100	<del>\$77</del>	\$61.60
MS-SN-18-AC-2F-31	8 mL	2 Frits	100	<del>\$102</del>	\$81.60
MS-SN-21-AC-0F-31	15 mL	No Frit	100	<del>\$141</del>	\$112.80
MS-SN-21-AC-1F-31	15 mL	1 Frit	100	<del>\$166</del>	\$132.80
MS-SN-21-AC-2F-31	15 mL	2 Frits	100	<del>\$191</del>	\$152.80
MS-SN-22-AC-0F-31	25 mL	No Frit	100	<del>\$147</del>	\$117.60
MS-SN-22-AC-1F-31	25 mL	1 Frit	100	<del>\$177</del>	\$141.60
MS-SN-22-AC-2F-31	25 mL	2 Frits	100	<del>\$207</del>	\$165.60
MS-SN-27-AC-0F-25	75 mL	No Frit	50	<del>\$180</del>	\$144
MS-SN-27-AC-0F-25	75 mL	1 Frit	50	<del>\$210</del>	\$168
MS-SN-27-AC-0F-25	75 mL	2 Frits	50	<del>\$240</del>	\$192
Packaging: All Items Bulk Bagged in a Corrugated Box.					

## Key Features

- Universal
- Unbreakable, non-toxic, inert to biological fluids and most acids.
- Smooth hydrophobic surface
- High surface transparency
- Sterile and autoclavable
- DNase, RNase & Pyrogen free

## Benefits to Customers

- Optimal fit on all popular SPE extraction systems from most leading brands (Agilent, Thermo Labsystems,)
- Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical.
- Ensures low liquid retention and reduces the loss of cells and proteins or other biomacromolecules
- Easy visual checks of the volume
- Permits use in aseptic environments
- Prevents risk of contamination errors



## Additional Information & Specifications

Graduated	No
Column Material Used	Ultra Pure USP Class VI Certified Virgin Polypropylene
Frit Material Used	Ultra Pure USP Class VI Certified Virgin Low Density Polyethylene
Column and Frit Material Free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers	Yes
Temperature Column Material Withstands	-80 to 120°C (-112 to 248°F)



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SKU No.	Column Type	Frits	Quantity	Price	
MS-SN-MC-SM-0F-31	Small with Cap, Maximum Bed Weight 300 mg	No Frit	100	<del>\$135</del>	\$108
MS-SN-MC-SM-1F-31	Small with Cap, Maximum Bed Weight 300 mg	1 Frit	100	<del>\$160</del>	\$128
MS-SN-MC-SM-2F-31	Small with Cap, Maximum Bed Weight 300 mg	2 Frits	100	<del>\$185</del>	\$148
MS-SN-MC-ME-0F-31	Medium with Cap, Maximum Bed Weight 600 mg	No Frit	100	<del>\$135</del>	\$108
MS-SN-MC-ME-1F-31	Medium with Cap, Maximum Bed Weight 600 mg	1 Frit	100	<del>\$160</del>	128
MS-SN-MC-ME-2F-31	Medium with Cap, Maximum Bed Weight 600 mg	2 Frits	100	<del>\$185</del>	148
MS-SN-MC-LA-0F-31	Large with Cap, Maximum Bed Weight 900 mg	No Frit	100	<del>\$135</del>	108
MS-SN-MC-LA-1F-31	Large with Cap, Maximum Bed Weight 900 mg	1 Frit	100	<del>\$165</del>	132
MS-SN-MC-LA-2F-31	Large with Cap, Maximum Bed Weight 900 mg	2 Frits	100	<del>\$190</del>	152
<b>Packaging:</b> All Items Bulk Bagged in a Corrugated Box.					

## Key Features

## Benefits to Customers

### Flexible Elution

- Can be attached to a syringe to elute the analyte anywhere - directly into an injection valve, or receiver vessels
- Can be connected to a needle to elute directly through a septa or sealing mat

### Stackable in Series

- Combine column with two different media in series for 1 complex extraction
- Each column can be eluted separately

### Interface Inline with Different Columns or Filters

- Connect via Luer Connections to Filters, other SPE Columns, or In-line Systems to Remove Contaminants and Particulates

### Change Sample Volume without changing media Bed Weight

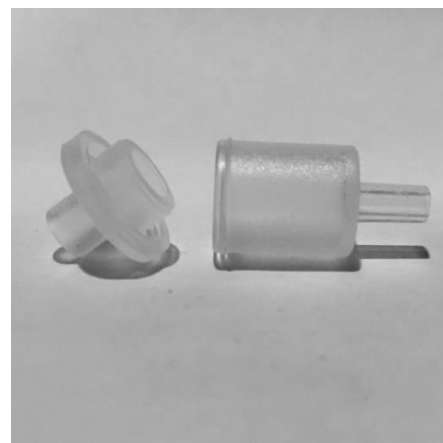
- Change Input Reservoir As Needed to Fit Sample Size

### Sterile and autoclavable

- Permits use in aseptic environments

### DNase, RNase & Pyrogen free

- Prevents risk of contamination errors



## Additional Information & Specifications

Graduated	No
Column Material Used	Ultra Pure USP Class VI Certified Virgin Polypropylene
Frit Material Used	Ultra Pure USP Class VI Certified Virgin Low Density Polyethylene
Column and Frit Material Free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers	Yes





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SKU No.	Average Pore Size	Column Type	Quantity	Price	
MS-FT-11-22-AC-31	20 µm	1.5 mL	100	<del>\$37</del>	29.60
MS-FT-14-22-AC-31	20 µm	4 mL	100	<del>\$40</del>	\$32
MS-FT-18-22-AC-31	20 µm	8 mL	100	<del>\$49</del>	\$39.2
MS-FT-21-22-AC-31	20 µm	15 mL	100	<del>\$52</del>	\$41.6
MS-FT-22-22-AC-31	20 µm	25 mL	100	<del>\$55</del>	\$44
MS-FT-27-22-AC-31	20 µm	75 mL	100	<del>\$65</del>	\$52
Packaging: Bulk Bagged in Recyclable Polyethylene Bag					

### Key Features

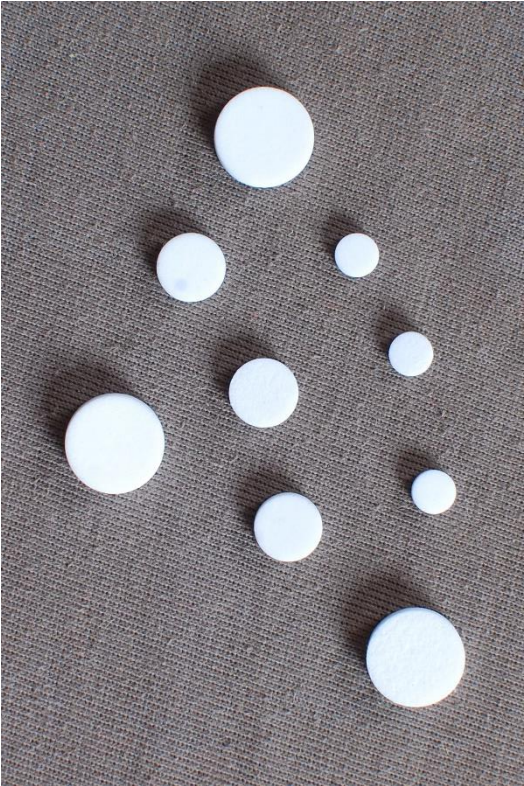
- Universal
- Unbreakable, non-toxic, inert to biological fluids and most acids.
- Smooth hydrophobic surface
- High surface transparency and graduations marks
- Sterile and autoclavable
- DNase, RNase & Pyrogen free

### Benefits to Customers

- Optimal fit on all popular SPE extraction systems from most leading brands (Agilent, Thermo Labsystems,)
- Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical.
- Ensures low liquid retention and reduces the loss of cells and proteins or other biomacromolecules
- Easy visual checks of the volume to aid error-free pipetting
- Permits use in aseptic environments
- Prevents risk of contamination errors

### Additional Information & Specifications

- Graduated Tip: Yes
- Column Material Used: Ultra Pure USP Class VI Certified Virgin Polypropylene
- Frit Material Used: Ultra Pure USP Class VI Certified Virgin Low Density Polyethylene
- Column and Frit Material Free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers: Yes
- Temperature Column Material Withstands: -80 to 120°C (-112 to 248°F)



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SKU No.	Tip Volume	Tip Color	Quantity	Price	
MS-MP-32-ST-NC-39*	2-200 µL	Natural	960	<del>\$62.90</del>	\$ 50.32
MS-MP-32-ST-YC-39*	2-200 µL	Yellow	960	<del>\$62.42</del>	\$ 49.94
MS-MP-41-ST-BC-39*	100-1000 µL	Blue	960	<del>\$69.26</del>	\$ 55.41
MS-MP-21-ST-NC-41**	0.2-10 µL	Natural	1000	<del>\$15.79</del>	\$ 12.63
MS-MP-32-ST-NC-41**	2-200 µL	Natural	1000	<del>\$21.65</del>	\$ 17.32
MS-MP-41-ST-BC-35**	100-1000 µL	Blue	500	<del>\$19.83</del>	\$ 15.86
* Packaging: Prefilled in 10 autoclavable tray racks (12 rows and 8 columns) placed inside a rack box with hinged lids.					
** Packaging: Bulk Bagged in resealable Recyclable Polyethylene Zip Lock Bag.					

## Key Features

## Benefits to Customers

- |   |  |
|---|--|
| Universal   | • Optimal fit on all popular pipettes from most leading brands (Eppendorf, Thermo Labsystems, Gilson, Biohit, Brand) |
| Smooth hydrophobic surface, Inner radial ring, and orifice design | • Ensures low liquid retention, excellent seal with the pipette, precise pipetting                                   |
| Ergonomic design  | • Reduces tip loading and ejection forces lowering the risk of Repetitive Strain Injuries (RSI)                      |
| High surface transparency and graduations marks                   | • Easy visual checks of the volume to aid error-free pipetting   |
| Sterile and autoclavable  | • Permits use in aseptic environments  |
| DNase, RNase & Pyrogen free                                       | • Prevents risk of contamination errors  |

## Additional Information & Specifications

- |   |  |
|---|--|
| Beveled Tip   | Yes  |
| Graduated Tip   | Yes  |
| Tip Material Used   | Ultra Pure USP Class VI Certified Virgin Polypropylene |
| Tip Material Confirms to US FDA 21 CFR  | Yes  |
| Tip Material Free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers | Yes  |
| Temperature Tip Material Withstands   | -80 to 120°C (-112 to 248°F)                           |
| Sterilization Validation Test   | EN ISO 11137-2   |
| Sterility Assurance Level (SAL)   | 10 <sup>-6</sup>                                       |



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SKU No.	Pipette Volume	Pipette Color	Quantity	Price	
MS-PP-11-AC-NC-35	1 mL	Natural	500	<del>\$23.58</del>	\$ 18.87
MS-PP-13-AC-NC-35	3 mL	Natural	500	<del>\$25.84</del>	\$ 20.67
Packaging: Bulk Bagged in a Corrugated Box.					

## Key Features

Unbreakable, non-toxic, inert to biological fluids and most acids.

Smooth hydrophobic surface

High surface transparency

Autoclavable

DNase, RNase & pyrogen free

Unbreakable, non-toxic, inert to biological fluids and most acids.

## Benefits to Customers

- Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical.
- Ensures low liquid retention and reduces the loss of cells and proteins or other biomacromolecules
- Allows easy visual checks of the volume to aid error-free pipetting
- Permits use in aseptic environments
- Prevents risk of contamination errors
- Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical

## Additional Information & Specifications

Graduated	Yes
Pipette Material Used	Ultra Pure USP Class VI Certified Virgin Low Density Polyethylene
Tip Material Confirms to US FDA 21 CFR	Yes
Tip Material Free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers	Yes
Temperature Tip Material Withstands	-50 to 85°C (-58-185°F)
Sterile	No
Autoclavable	Yes



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SKU No.	Tube Volume	Tube Color	Quantity	Price	
MS-TT-12-AC-NC-35	2.5 mL	Natural	500	<del>\$44.50</del>	\$35.60
MS-TT-15-AC-NC-35	5 mL	Natural	500	<del>\$56.05</del>	\$44.84
MS-TT-21-AC-NC-35	10 mL	Natural	500	<del>\$103.13</del>	\$82.51
<b>Packaging:</b> Bulk Bagged in a Corrugated Box					

## Key Features

Unbreakable, non-toxic, resistant to biological fluids, most acids, alkalis, and organic solvents

inert to biological fluids

Can withstand 3000 relative centrifugal force (RCF) during centrifugation

High surface transparency

Autoclavable

DNase, RNase & Pyrogen free

## Benefits to Customers

- Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical

- Allows radioimmunoassay (RIA) testing, dispersive solid-phase extraction

- Ensures excellent separation of serum or plasma from red blood cells. Harvest and purify chemical precipitates, intact cells, nuclei, large mitochondria, and large plasma-membrane fragments.

- Easy visual checks of the volume to aid error-free liquid handling

- Permits use in aseptic environments

- Prevents risk of contamination errors



## Additional Information & Specifications

Tube Diameter & length	1.6 cm & 10 cm
Graduated	No
Tube Material Used	Ultra Pure USP Class VI Certified Virgin Polypropylene
Tube Material Confirms to US FDA 21 CFR & free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers	Yes
Temperature Tube Material Withstands	-80 to 120°C (-112 to 248°F)
Sterile	No

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Free Shipping

SKU No.	Cap Volume	Cap Color	Quantity	Price	
MS-TT-UC-AC-BC-35	Universal , Compatible with 2.5 mL, 5 mL, and 210 mL Test Tubes (RIA Vials)	Natural	500	<del>\$32.37</del>	\$25.90
<b>Packaging:</b> Bulk Bagged in a Corrugated Box					

## Key Features

Flat thread cap design

Unbreakable, non-toxic, resistant to biological fluids, most acids, alkalis, and organic solvents.

inert to biological fluids

Can withstand 3000 relative centrifugal force (RCF) during centrifugation

Autoclavable

DNase, RNase & Pyrogen free

## Benefits to Customers

- Secures vacuum-tight closure and prevents leaks
- Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical.
- Allows Radioimmunoassay (RIA) testing, dispersive solid-phase extraction
- Ensures excellent separation of serum or plasma from red blood cells. Harvest and purify chemical precipitates, intact cells, nuclei, large mitochondria, and large plasma-membrane fragments
- Permits use in aseptic environments
- Prevents risk of contamination errors



## Additional Information & Specifications

Graduated	No
Cap Material Used	Ultra Pure USP Class VI Certified Virgin Polypropylene
Cap Material Confirms to US FDA 21 CFR & free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers	Yes
Temperature Cap Material Withstands	-80 to 120°C (-112 to 248°F)
Sterile	No



Introductory 20% Off &  
Free Shipping

SKU No.	Centrifuge Volume	Cap Color	Quantity	Price	
MS-CT-25-ST-BC-35	50 mL	Blue	500	<del>\$121.10</del>	\$96.88
<b>Packaging:</b> Bulk Bagged in Recyclable Polyethylene Bag					

## Key Features

Can withstand 15,000 relative centrifugal force (RCF) during centrifugation

Flat thread cap design

Conical bottom Design

Unbreakable, non-toxic, resistant to biological fluids, most acids, alkalis and organic solvents.

Smooth hydrophobic surface

Large chemical-resistant, scratch-proof frosted rectangular center

High surface transparency and graduations marks

Sterile

DNase, RNase & Pyrogen free

## Benefits to Customers

- Facilitates excellent separation serum or plasma from red blood cells. Harvest and purify chemicals, intact cells, nuclei, large mitochondria, and large plasma-membrane fragments.

- Secures vacuum tight closure and prevents leaks

- Allows efficient pelleting of sediments

- Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical.

- Ensures low liquid retention and reduces loss of cells and proteins or other biomacromolecules

- Easy writing sample information

- Simple visual checks of the volume to aid error-free pipetting

- Permits use in aseptic environments

- Prevents risk of contamination errors



## Additional Information & Specifications

Conical Bottom Yes

Graduated Yes

Centrifuge Material Used Ultra Pure USP Class VI Certified Virgin Polypropylene

Cap Material Confirms to US FDA 21 CFR & free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers Yes

Temperature Centrifuge Material Withstands -80 to 120°C (-112 to 248°F)

Sterilization Validation Test EN ISO 11137-2

Sterility Assurance Level (SAL) 10<sup>-6</sup>



Introductory 20% Off &  
Free Shipping

SKU No.	Microcentrifuge Volume	Microcentrifuge Color	Quantity	Price	
MS-MC-05-AC-NC-41	0.5 mL	Natural	1000	<del>\$29.50</del>	\$23.60
MS-MC-11-AC-NC-35	1 mL	Natural	500	<del>\$23.24</del>	\$18.60
MS-MC-12-AC-NC-35	2 mL	Natural	500	<del>\$24.87</del>	\$19.90
MS-MC-12-AC-LR-35	2 mL (ultra-low retention)	Natural	500	<del>\$27.61</del>	\$22.09
<b>Packaging:</b> Bulk Bagged in Recyclable Polyethylene Bag					

## Key Features

- Smooth hydrophobic or superhydrophobic surface
- Can withstand 20,000 relative centrifugal force (RCF) during centrifugation
- Integral snap cap design
- Conical bottom Design
- Unbreakable, non-toxic, resistant to biological fluids, most acids, alkalis and organic solvents.
- Chemical-resistant, scratch-proof frosted surface
- High surface transparency and graduations marks
- Autoclavable
- DNase, RNase & Pyrogen free

## Benefits to Customers

- Ensures ultra low liquid retention and reduces loss of cells and proteins or other biomacromolecules
- Isolation and purification of cellular components such as endoplasmic reticulum, golgi membrane, endosomes, ribosomes, DNA, and RNA
- Secures vacuum tight closure and prevents leaks
- Allows efficient pelleting of sediments
- Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical.
- Easy writing sample information
- Simple visual checks of the volume to aid error-free pipetting
- Permits use in aseptic environments
- Prevents risk of contamination errors

## Additional Information & Specifications

Conical Bottom	Yes
Graduated	Yes
Centrifuge Material Used	Ultra Pure USP Class VI Certified Virgin Polypropylene
Cap Material Confirms to US FDA 21 CFR & free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers	Yes
Temperature Microcentrifuge Material Withstands	-80 to 120°C (-112 to 248°F)
Sterile	No



SKU No.	Microcentrifuge Volume	Rack Color	Quantity	Price	
MS-MC-RK-AC-WC-18	Compatible with 0.5 mL, 1mL, & 2 mL microcentrifuge tubes	White	8	<del>\$59.00</del>	\$47.20
<b>Packaging:</b> Bulk Bagged in Recyclable Polyethylene Bag					

## Key Features

## Benefits to Customers

- |   |  |
|---|--|
| Ergonomic design  | • Allows easy removal and insertion of tubes   |
| Universal design  | • Permits placement of 0.5 mL, 1mL, and 2 mL microcentrifuge tubes                           |
| Rack connect on each side   | • Allows attachment of several racks for larger experiments                                  |
| Unbreakable, non-toxic, resistant to biological fluids, most acids, alkalis and organic solvents. | • Eliminates or mitigates hazardous exposure due to broken glass or chemical or biochemical. |
| High surface transparency and graduations marks   | • Simple visual checks of the volume to aid error-free pipetting                             |
| Autoclavable  | • Permits use in aseptic environments  |
| Numbered holes  | • Allows easy sample identification  |

## Additional Information & Specifications

Rack configuration	20 slots (2 rows and 10 columns)
Rack Material Used	Ultra Pure USP Class VI Certified Virgin Polypropylene
Rack Material Confirms to US FDA 21 CFR	Yes
Rack Material Free from Heavy Metals, Natural Rubber & Inhibitory Plasticizers	Yes
Temperature Rack Material Withstands	-80 to 120°C (-112 to 248°F)
Sterile	No
Autoclavable	Yes

