



Nunc roller bottles

No matter the culture, we have a solution

Enhanced portfolio, unequaled choice

We offer a comprehensive portfolio of Thermo Scientific™ Nunc™ roller bottles. The choice is yours with options available in both polystyrene (PS) and polyethylene terephthalate glycol (PETG). These smooth and expandable surface formats enable you to find the optimal substrate for your cells' culture.

Trusted performance and compliance

- Noncytotoxic; USP <87> Biological Reactivity, *In Vitro*
- USP Class VI; USP <88> Biological Reactivity, *In Vivo*
- Every lot is tested to enable USP <85> Bacterial Endotoxin compliance
- Our roller bottles are cell culture–treated for consistent, reliable cell attachment
- Certified sterile by gamma irradiation per ANSI/AAMI/ISO 11137 guidelines

Trusted performance and compliance

All Nunc roller bottles are manufactured in ISO 13485-2010–registered facilities and ISO Class 7 clean rooms.



Nunc PETG roller bottles

Enable increased cell growth and product yield without increasing labor

Thermo Scientific™ Nunc™ PETG roller bottles are molded in shatter-resistant PETG and are available in both smooth and pleated surfaces.

- Growth areas ranging from 1,050 cm² to 4,200 cm² help enable increased cell expansion and product yield without investing in additional equipment or increased labor
- PETG can be frozen to –40°C for freeze-thaw release protocols
- Lot numbers are located on every bottle for full traceability
- Nunc PETG roller bottles are sterilized by gamma irradiation and meet sterility assurance level (SAL) 10⁻⁶

Every lot is cell culture performance–tested and certified nonpyrogenic at a level of <0.5 EU/mL per USP <85>.



Specifications for Nunc PETG roller bottles

Surface type	Closure type	Surface area	Complete media volume recommendation (0.2–0.4 mL/cm ²)*	Max. nominal volume	No. per pack/ No. per case	Cat. No.
Smooth	Solid	1,050 cm ²	210–420 mL	2,000 mL	5/20	1060-05
Smooth	Solid	1,050 cm ²	210–420 mL	2,000 mL	20/20	1060-20
Smooth	Vented	1,050 cm ²	210–420 mL	2,000 mL	5/20	1060-85
Smooth	Solid	1,800 cm ²	360–720 mL	5,000 mL	22/22	1860-22
Pleated	Solid	1,700 cm ²	340–680 mL	2,000 mL	20/20	1760-20
Pleated	Solid	2,100 cm ²	420–840 mL	2,000 mL	5/20	2160-05
Pleated	Solid	2,100 cm ²	420–840 mL	2,000 mL	20/20	2160-20
Pleated	Solid	4,200 cm ²	840–1,680 mL	5,000 mL	22/22	4260-22

* 0.2 mL/cm² is a typical volume. More or less media may be used. Media volumes will be dependent on cell type, and media type (DMEM, MEM, serum-free, etc.).

Nunc PS roller bottles

Minimize validation of cell culture scale-up processes from plates to flasks to roller bottles by choosing a family of products that utilize PS materials

Thermo Scientific™ Nunc™ PS roller bottles are available with a smooth surface with an industry-standard growth area of 850 cm² or a pleated surface of 1,450 cm² that increases the growth area by over 40%. The unique vertical pleats make emptying easier and provide less product retention versus horizontal pleats. Nunc PS roller bottles are sterilized by gamma irradiation and meet SAL 10⁻⁶.

Every lot is cell culture performance–tested and certified nonpyrogenic at a level of <0.1 EU/mL per USP <85>. Nunc PS roller bottles have easy on/off closures that help prevent misthreaded while allowing a secure seal.

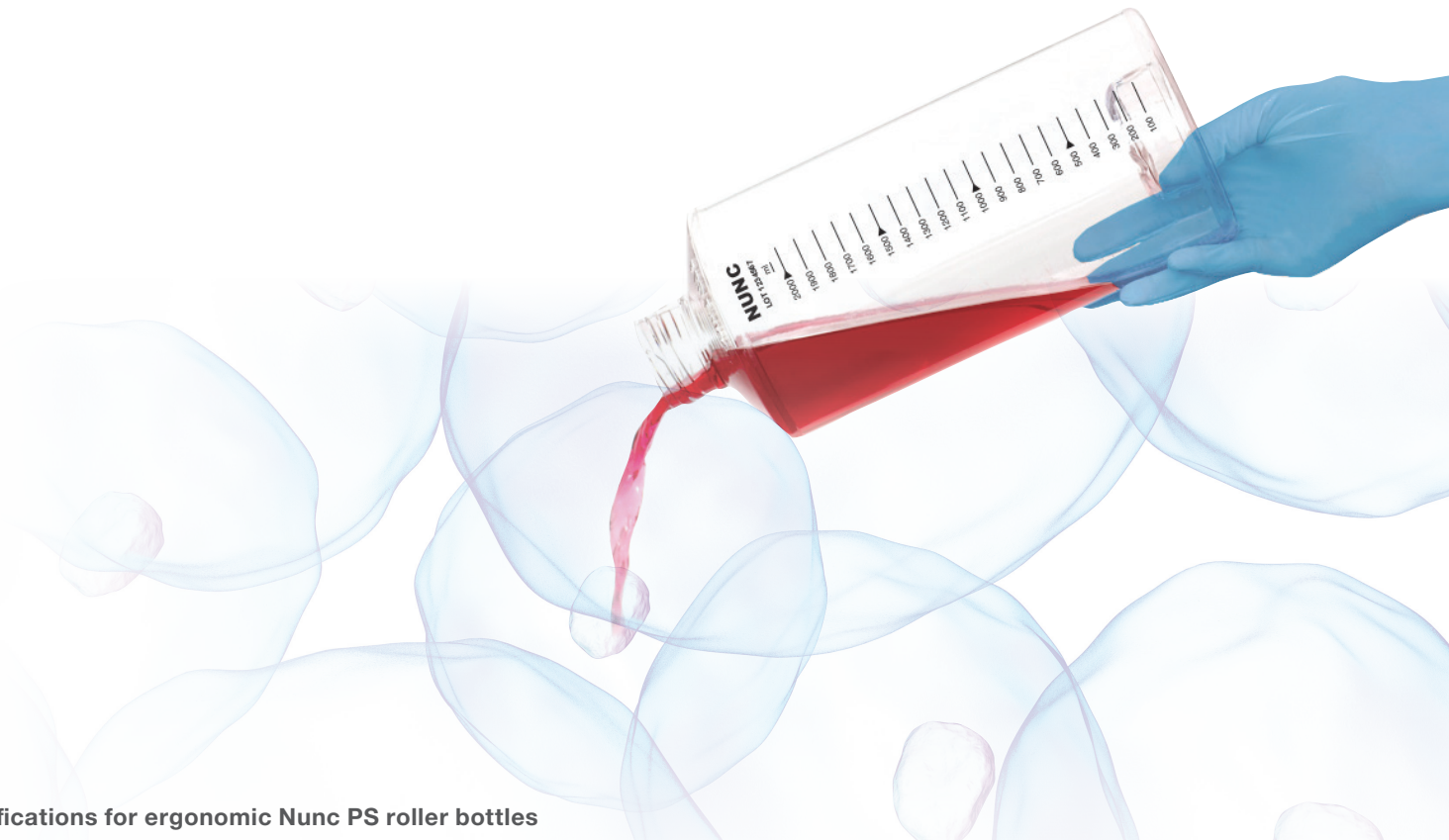


Specifications for Nunc PS roller bottles

Surface type	Closure type	Surface area	Complete media volume recommendation (0.2–0.4 mL/cm ²)*	Max. nominal volume	No. per pack/ No. per case	Cat. No.
Smooth	Vented	850 cm ²	170–425 mL	2,000 mL	2/20	181702
Smooth	Solid	850 cm ²	170–425 mL	2,000 mL	2/20	182702
Smooth	Solid	850 cm ²	170–425 mL	2,000 mL	20/20	182720
Smooth	Solid	850 cm ²	170–425 mL	5,000 mL	20/20**	182744
Pleated	Vented	1,450 cm ²	290–580 mL	2,000 mL	20/20**	141744
Pleated	Solid	1,450 cm ²	290–580 mL	2,000 mL	20/20	142720
Pleated	Solid	1,450 cm ²	290–580 mL	2,000 mL	20/20**	142744

* 0.2 mL/cm² is a typical volume. More or less media may be used. Media volumes will be dependent on cell type, and media type (DMEM, MEM, serum-free, etc.).

** Double bagged.



Specifications for ergonomic Nunc PS roller bottles

Surface type	Closure type	Surface area	Complete media volume recommendation (0.2–0.4 mL/cm ²)*	Max. nominal volume	Base indent	No. per pack/ No. per case	Cat. No.
Smooth	Vented	850 cm ²	170–425 mL	2,000 mL	Shallow	2/20	183302
Smooth	Solid	850 cm ²	170–425 mL	2,000 mL	Shallow	2/20	184302
Smooth	Solid	850 cm ²	170–425 mL	2,000 mL	Shallow	20/20**	184344
Smooth	Vented	850 cm ²	170–425 mL	2,000 mL	Deep	2/20	183902
Smooth	Solid	850 cm ²	170–425 mL	2,000 mL	Deep	2/20	184902
Smooth	Solid	850 cm ²	170–425 mL	2,000 mL	Deep	20/20	184920
Smooth	Solid	850 cm ²	170–425 mL	2,000 mL	Deep	20/20**	184944

* 0.2 mL/cm² is a typical volume. More or less media may be used. Media volumes will be dependent on cell type, and media type (DMEM, MEM, serum-free, etc.).

** Double bagged.

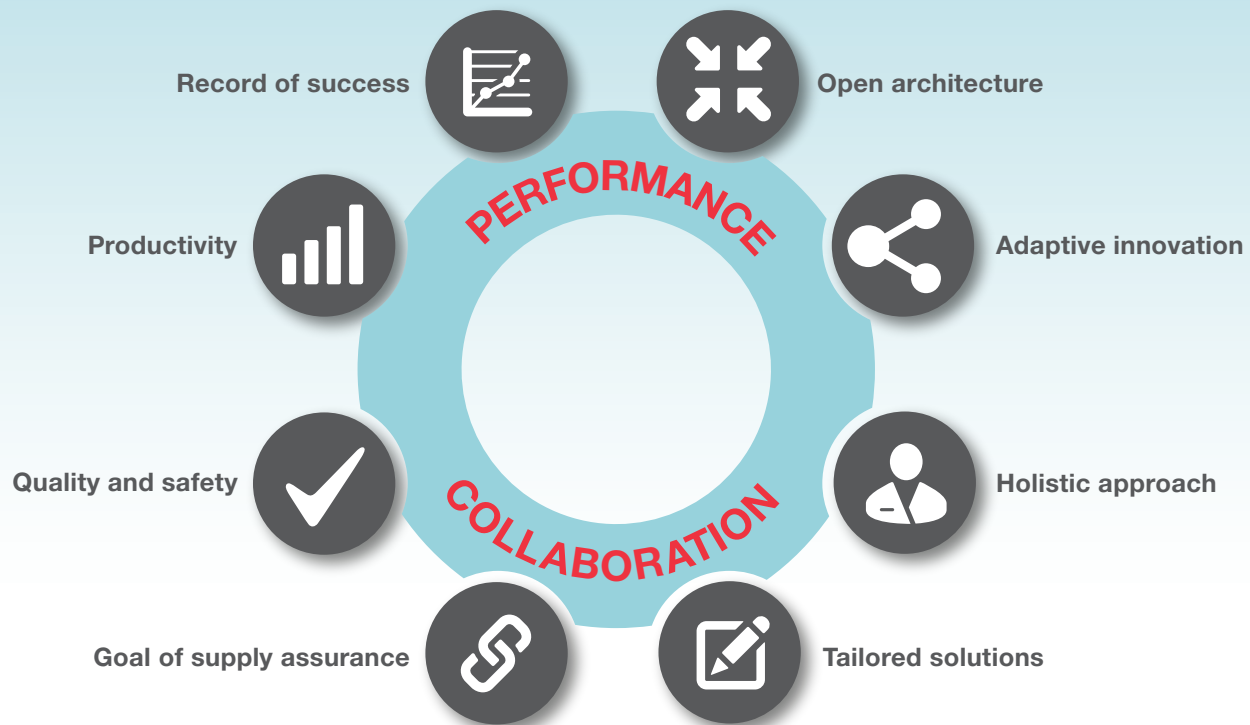
Note: The unique indentation in the bottom of these roller bottles facilitates both manual and automated handling.

Nunc roller bottle high-density polyethylene (HDPE) replacement closures, easy on/off

Closure type	Material	No. per pack/ No. per case	Cat. No.
Easy on/off, vented	HDPE	250/250	111250
Easy on/off	HDPE	250/250	112250

Bioprocessing by Design

Driving performance through collaboration



To meet the increasing demand for biologics worldwide, you expect more from suppliers. It isn't just about the products we deliver, but how we do business together.

With a collaborative approach that is grounded in our technical knowledge, we work with you to enable optimal bioprocessing outcomes. Committed to identifying the technologies and services that address your needs, from drug development through large-scale commercial production, we provide integrated and tailored solutions that are designed to improve the overall biomanufacturing experience. If a solution doesn't exist, we can build it—together.

And while we are flexible in our approach, we are uncompromising in our pursuit of performance. Through technical engagement, innovative product design, and strategic sourcing programs, we enable productivity, quality, and assurance of supply so that you can have complete confidence in the efficiency and speed of your biologics development and manufacturing processes.

That's our commitment to you, and it's what we call Bioprocessing by Design.

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