

Roller Bottles



Roller Bottle Application Tips

- ▶ Corning recommends 0.2 mL to 0.3 mL of medium per cm² of growth area.
- ▶ Corning recommends setting roller rack speeds to provide 0.5 to 1.0 rpm.



Easy grip vent cap



Ideal for a variety of rolling applications, Corning Roller Bottles are made of USP Class VI Polystyrene. They are single-use, sterile, feature laser-etched or in-mold graduations and are available in 490 cm², 850 cm², 1,700 cm² pleated, and 1,750 cm² sizes. Caps are available in solid High Density Polyethylene (HDPE) or vented HDPE with a 0.2 µm microporous PTFE membrane.

- ▶ Treated for optimal cell attachment
- ▶ One piece seamless construction
- ▶ All bottles have printed lot numbers to aid in product traceability
- ▶ Sterility Assurance Level (SAL) of 10⁻⁶
- ▶ Nonpyrogenic

Expected Cell Yields and Recommended Medium Volumes

Description	Approximate Growth Area (cm ²)	Average Cell Yield*	Recommended Medium Volume (mL)
490 cm ² roller bottle	490	4.9 x 10 ⁷	100 - 150
850 cm ² roller bottle	850	8.5 x 10 ⁷	170 - 255
1,700 cm ² roller bottle	1,700	1.7 x 10 ⁸	340 - 510
1,750 cm ² roller bottle	1,750	1.75 x 10 ⁸	350 - 525

*Assumes an average yield of 1 x 10⁵ cells/cm² from a 100% confluent culture. Yields from many cell types can be lower than this.

Roller Bottles, Standard Surface

Cat. No.	Surface	Surface Area (cm ²)	Cap Style	Graduations	Qty/Pk	Qty/Cs
430195	TC-treated	490	Plug seal	No	2	40
430849	TC-treated	850	Easy grip	Yes	2	40
431133	TC-treated	850	Easy grip	Yes	20	20
431198	TC-treated	850	Easy grip vent	Yes	2	40
430851	TC-treated	850	Easy grip	Yes	5	40
431321	TC-treated	850	Easy grip	Yes	22	44
31292*	TC-treated	850	Easy grip vent	Yes	20	40
3907	Corning CellBIND®	850	Easy grip	Yes	2	40
431329	Corning CellBIND	850	Easy grip vent	Yes	2	40
431345*	Corning CellBIND	850	Easy grip	Yes	20	20
431344	Corning CellBIND	850	Easy grip	Yes	22	44
431644	Untreated	850	Easy grip	Yes	1	40
430699	TC-treated	1,750	Easy grip	Yes	10	20

*Made to order. Please contact your local Corning Account Representative for more information.

Roller Bottles, Expanded Surface

Ribbed design provides twice the surface area with the same exterior dimensions

Cat. No.	Surface	Surface Area (cm ²)	Cap Style	Graduations	Qty/Pk	Qty/Cs
430852	TC-treated	1,700	Easy grip	Yes	2	40
430853	TC-treated	1,700	Easy grip	Yes	5	40
431135	TC-treated	1,700	Easy grip	Yes	20	20
431191	TC-treated	1,700	Easy grip vent	Yes	20	20
431134	Corning CellBIND	1,700	Easy grip	Yes	20	20

Roller Bottle Caps, Polyethylene

Caps are available separately and are individually wrapped. Easy grip vent cap is designed for applications requiring consistent gas exchange.

Cat. No.	Cap Style	Qty/Pk	Qty/Cs
431132	Easy grip vent cap	1	300

Aseptic Transfer Caps for Corning Roller Bottles

Cat. No.	Description	Tubing	Tubing Length with Connector	Tubing Connection	Qty/Pk	Qty/Cs
10043	Disposable aseptic transfer cap for roller bottle with 0.2 µm filter	Chemically resistant, heat sealable flexible tubing, 3/8" ID, 1/2" OD	8"	Male MPC	1	2

MPC = medical plastic coupler.