

- ✔ Ideal for preparing small batches of enteric capsules in your laboratory.
- ✔ Save time and money by eliminating set-up time for pan/spray coating
- ✔ Proven in European laboratories using conventional CAP coating solutions
- ✔ Innovative dip apparatus for complete, uniform coating.
- ✔ Used in hospitals and university pharmacies; clinical laboratories; drug development.

Batch Size:	60 capsules
Batch Time:	Approx. 10 minutes including drying time for two coatings
Coating Method:	Dip
Coating Solution:	Various including cellulose acetate phthalate from Eastman Chemical and Eudragit from Degussa (formerly Hulls or Rohm)
Capsule Sizes:	Holders are available for size 00, 0, 1 and 2. For size 3, 4 or 5 fill capsules and insert in a Size 1 capsule that can be enteric coated. Common holder for capsule sizes 00/0 and a separate common holder for capsule sizes 1/2.
Price:	\$395. Includes one holder for capsule sizes 00/0 and one holder for capsule sizes 1/2. Additional holders are \$50 each and available in 00/0 or 1/2.

Equipment Identification:

Coating Stand: contains drying rack for holder and place for coating tray.

Coating Tray: pan with handle that holds silicone coating tray liner.

Coating Tray Liner: semi-transparent flexible silicone tray which lines the coating tray and contains the coating solution. Many coating solutions when dry form a strongly adhesive film. The flexible liner makes it easier to "break" the film during cleaning.

Stiffener: white plastic sheet with 60 holes.

Coating Tray Cover: cover to minimize evaporation loss of coating solution.

Reversing Stand: used to reverse capsules after one-half of caplet/capsule is coated.

Holder: black & white plastic sheet in capsule sizes 00/0 and ½ with membrane and 60 holes.

TORPAC®

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Coating Solution:

The coater works best with solvent based coatings. The recommended amount of coating solution to fill the coating tray is: Size 00 - 110 ml; Size 0 - 114 ml; Sizes 1 & 2 - 120 ml. Replenish the solution's level as necessary. Contact information for two of the primary suppliers of enteric coating chemicals is on page 4. *Tip: the coating tray liner is not soluble in acetone.*

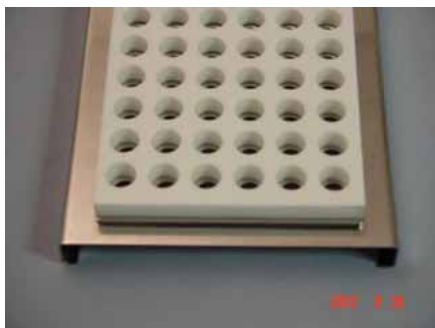
A) Loading filled capsules into holder.



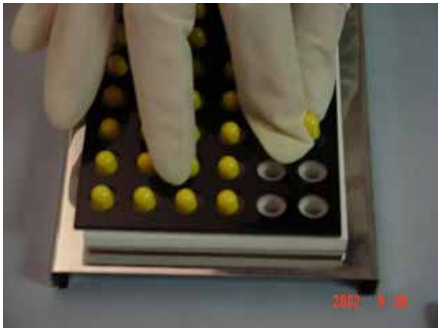
You can transfer capsules directly from your capsule filler into the holder (not shown).

Or

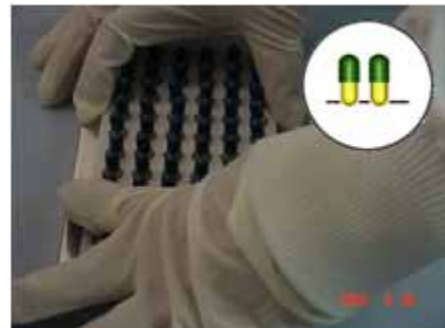
You can insert the capsules into the loader as shown below. In this example, the capsule cap is green (darker color) and the capsule body is yellow (lighter color)



1. Place Stiffener on Reversing Stand.

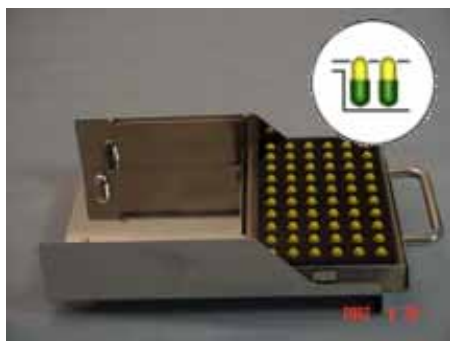


2. Place Holder with the black side facing you on the stiffener. Insert capsules cap side down (green) and body side up (yellow).

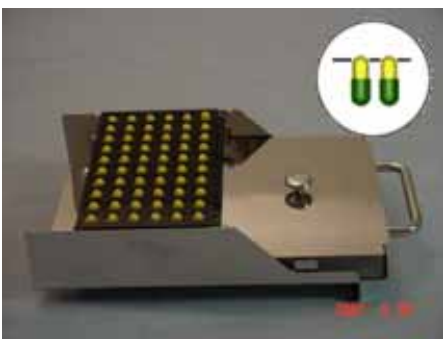


3. Remove Holder and Stiffener. Turn Holder over so capsule caps face up (green). Place Holder on Reversing Stand. Place Stiffener on the Holder and press down. This ensures the capsules are in the correct position for dip coating.

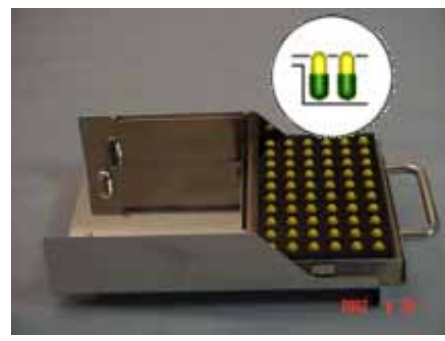
B) Coating "cap" half of capsule/caplet.



4. Remove Coating Tray Cover. Dip the Holder cap side first (green) into the solution. The entire cap of the capsule plus a portion of the capsule body is coated



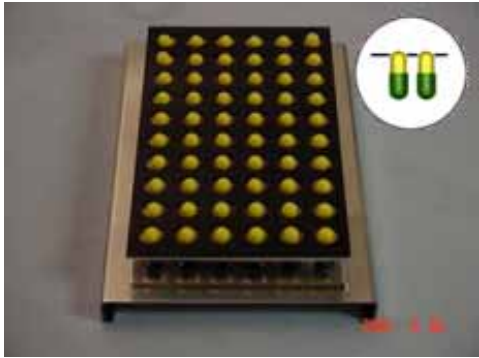
5. Remove Holder and place on Coating Stand's drying rack. Remember to place the Cover on the Coating Tray.



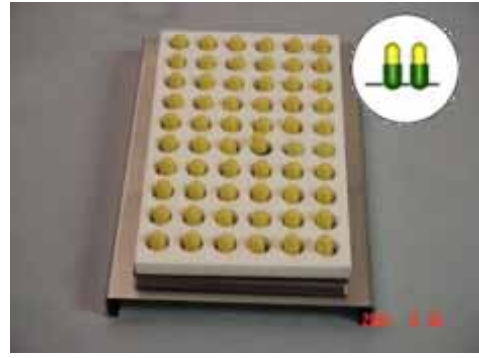
6. Remove Coating Tray Cover. Apply second coat of solution by dipping the Holder cap side first (green) into the solution. Remove Holder and place on Coating Stand's drying rack. Remember to place the Cover on the Coating Tray.



C) Reversing Capsules/Caplets to enable coating of "body" half.

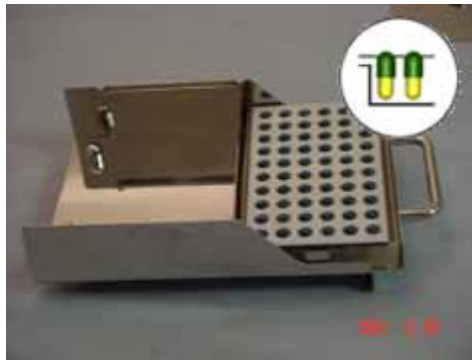


7. After capsules have dried remove Holder and place on the Reversing Stand with the cap side down (green).

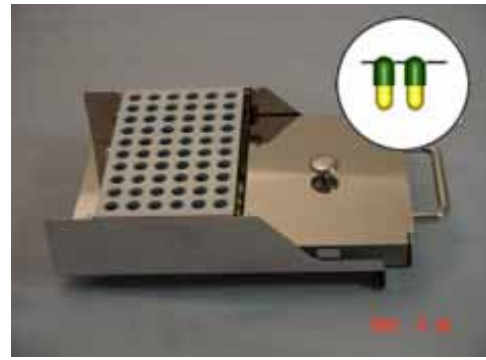


8. Place the Stiffener on the Holder and press down.

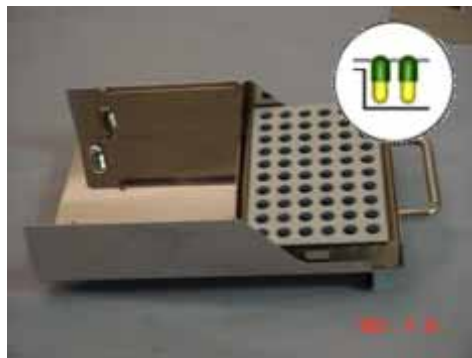
D) Coating "body" half of capsule/caplet.



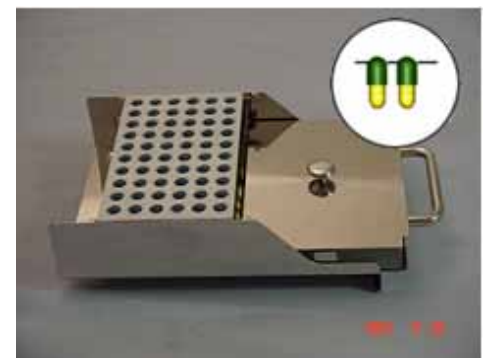
9. Remove Coating Tray Cover. Dip the Holder body side (yellow) first into the solution. The entire capsule body plus a portion of the capsule cap is coated.



10. Remove Holder and place on Coating Stand's drying rack. Remember to place the Cover on the Coating Tray.



11. Remove Coating Tray Cover. Apply second coat of solution by dipping the Holder body side (yellow) first into the solution. Remove Holder and place on Coating Stand's drying rack.



12. After capsules have dried, remove them from the Holder. The entire capsule is coated!





Information on Coatings

The ProCoater works best with solvent-based solutions as they dry quickly.
Below are two companies that supply chemicals to use with the ProCoater.

degussa.

For information on
Eudragit line of coatings from Degussa
(formerly Huls, Rohm).

www.rohmamerica.com

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EASTMAN

For information on:
Cellulose Acetate Pthalate, "C-A-P" from Eastman:

www.eastman.com

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