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FagronLab™ MedCaps Mini

User Manual

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Understanding the differences between the three FagronLab™ MedCaps models

FagronLab™ offers three distinct MedCap models, each specifically designed to fulfill various needs in compounding pharmacies. These devices ensure accuracy and efficiency in preparing hard capsule dosage forms.

FagronLab™ MedCaps: The standard model is specifically designed to assist in the precise preparation of hard capsule dosage forms, from #5 to #000 capsule sizes, ensuring accurate and consistent results in the compounding process. This model is ideal for pharmacies looking to streamline their operations while maintaining the highest standards of dosage accuracy and efficiency in capsule production.

FagronLab™ MedCaps Mini: This is a more compact version of the standard model, designed to meet the needs of compounding pharmacies that require the preparation of smaller hard capsules. It is especially suitable for capsule sizes ranging from #4 to #00, offering the same level of precision and reliability as the regular model but in a more space-efficient and versatile form.

FagronLab™ MedCaps Duo: This model is uniquely designed to facilitate measuring the necessary amount of excipient needed to compound the Capsule-in-Capsule technology. It simplifies the process of measuring and combining the necessary amount of excipient, making it easier for compounding pharmacies to create these advanced, double capsules. With its specialized features, the **FagronLab™ MedCaps Duo** enhances the precision and ease of this more complex compounding process.

Figure 1. FagronLab™ MedCaps models.

FagronLab™ MedCaps Mini

1. Performance and Main Features

FagronLab™ MedCaps Mini is a compact glass device that presents precise and validated graduations designed to compound hard capsule sizes ranging from **#4 to #00**. It allows the appropriate choice of capsule size to be used, as well as the exact definition of the amount of excipient required for the complete volumetric filling of the capsule, ensuring total precision in a practical and efficient manner.

2. Application

The **FagronLab™ MedCaps Mini** eliminates the need for calculations based on the bulk density of powders, which can vary between batches of active ingredients and excipients. It accurately determines the apparent volume of the compounded formulation, ensuring consistent weight across multiple capsules. The selection of capsule size and the total number of excipients needed can be easily made, regardless of prior professional experience. Additionally, it helps identify when a prescribed dose should be divided into multiple capsules, offering a more compact and streamlined solution.

3. Technical Parameters

Model	FagronLab™ MedCaps Mini glass cylinder
Composition	Glass cylinder: Borosilicate glass Tamper: Nylacast Polyacetal (POM-C); Stainless Steel 316TI; Stainless Steel and Polyamide 612.
Graduation	Permanent red engraving
Diameter (external)	(32 ± 2) mm
Height (external)	(194 ± 5) mm
Diameter (internal)	(29 ± 2) mm
Height (internal)	(135 ± 2) mm

4. Application and Use

Graduation

Graduation present in **FagronLab™ MedCaps Mini** accommodates capsule sizes from **#4 to #00**, making it suitable for 20, 40, 60, 80, and 100 capsules. The device allows the determination of the real volume of the formulation, matches the capsule size according to the desired quantity, and prevents weight variation among capsules (Figure 2).

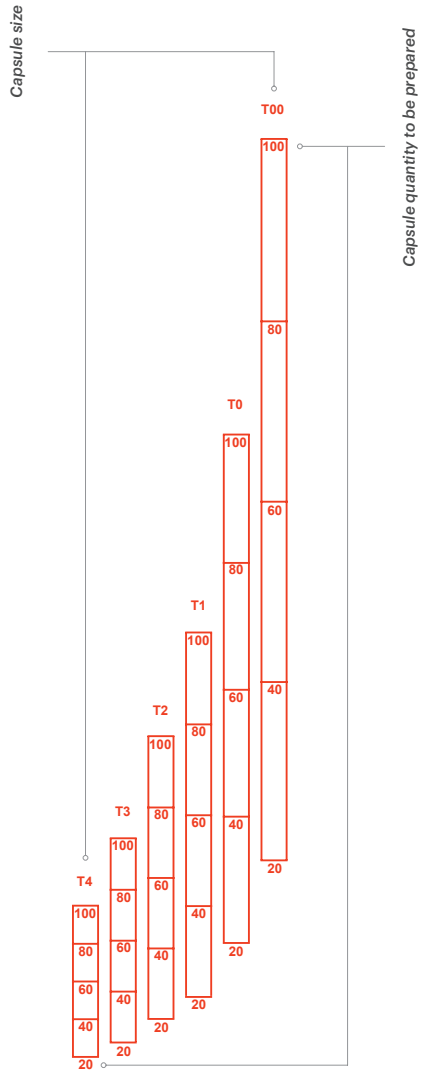

Figure 2. Graduation scale of the FagronLab™ MedCaps Mini.

5. Operation

1. Weigh the active ingredients of the formulation according to the prescription;
2. Transfer the active ingredients into the **FagronLab™ MedCaps Mini**;
3. With the **FagronLab™ MedCaps Mini Tamper**, slightly compact the powder, simulating the tamping process during encapsulation;
4. Choose the correct capsule size according to the occupied volume of the quantity needed (choose the closest size up);
5. Add the required amount of excipient directly to the **FagronLab™ MedCaps Mini** until the desired volume is reached
6. Slightly compact the powder with the **FagronLab™ MedCaps Mini Tamper** again;
7. Complete the volume again if needed;
8. Use the metallic spatula located on the backside of the tamper to empty the device.

Notes

- If a higher quantity of excipient is needed (for active ingredient stability or bioavailability), choose the subsequent capsule size.
- For fractionated doses, select the capsule size and number of capsules that best accommodate all formulation ingredients.
- Before using the **FagronLab™ MedCaps Mini**, ensure the device is clean and dry.
- For better results when emptying the powder from the cylinder, utilize the **FagronLab™ ION-e**.

6. Attention

- The use must be carried out in accordance with the rules stipulated in the manual;
- The equipment is made of glass; careful handling should be in place to avoid damage.

7. Maintenance

- The device is made from borosilicate glass; it does not need further calibration.
- Clean the equipment only with non-abrasive agents (neutral soap and water).
- Use **FagronLab™ MedCaps Mini brush** (included) to clean the device.
- Do not scrub the external surface of the device to avoid damage to the engravings.
- Do not use abrasive products.
- Dry the device naturally or in a drying cabinet.
- The **FagronLab™ MedCaps Mini** can safely withstand heating up to 300°C without any issues. However, due to the base having a significantly thicker construction than the body, it is important to avoid rapid temperature changes that could cause thermal shock. To prevent potential damage, including rupture at the welding point between the two parts, the heating process should be gradual and uniform.

  Important: Never allow a temperature differential (Delta) greater than 90°C between the base and the body during heating to ensure the integrity of the product.

8. Transportation and Storage

Mechanical collisions should be avoided while transporting the equipment. The equipment should be stored in a dry place.