DiluCap SR

The right excipient for slow-release capsules

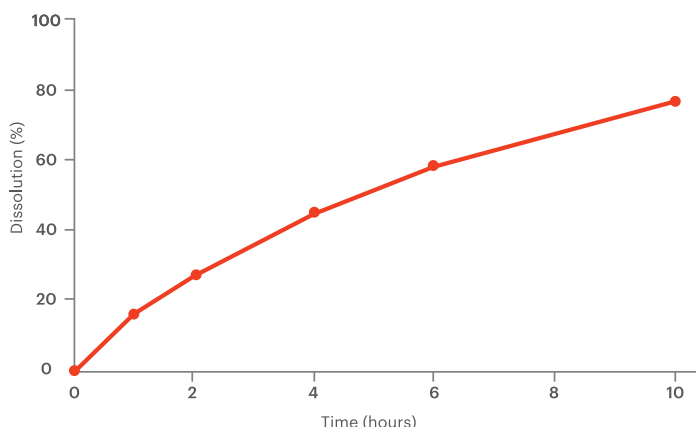Fagron
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The choice of the correct excipient is of great importance to ensure the clinical performance of an active pharmaceutical ingredient (API), as it can directly influence its bioavailability, solubility, stability, and other physical and chemical properties.

A slow-release medication ensures that the API is released into the body over an extended period of time, instead of releasing the full dose at once. Some APIs have a high absorption rate, which means that they are rapidly delivered to our bodies, causing a peak in the concentration level. This is usually followed by a fast decrease in this concentration, which leads to the necessity of a new dose administration.

As every API has its own absorption profile, the choice of the excipient is the best strategy to adjust the medication release frequency and ensure success in treatments.

DiluCap SR is a ready-to-use excipient especially developed **for APIs that require a slow-release rate** in the body. **DiluCap SR** reduces the disintegration and release rate of the API, preventing plasma peaks that can lead to side effects, maintaining the drug available during extended periods of time.

DiluCap SR is physiologically inert and free from allergens such as lactose, gluten, soy, and others.

Time (hours)	Dissolution (%)
1	16.28
2	27.27
4	45.10
6	58.23
10	76.66

Dissolution profile of diclofenac sodium 50 mg capsules compounded with DiluCap SR.
Specification according to the United States Pharmacopeia.

DiluCap SR provides to the pharmacist:

• Reduced concentration peaks and associated side effects
• Improved patient adherence to treatment
• Avoidance of segregation between particles
• The preservation of the API stability
• Dose accuracy among capsules due to adequate particle distribution
• High-performance formulations with adequate bioavailability
• Better handling of different powders and great flow properties
• Proven functionality
• Reproducibility in every batch
• Reduction of process time and number of items in stock

For each API, there is a right DiluCap excipient:

DiluCap SLD   **DiluCap PSD**   **DiluCap SR**

DiluCap Hygro   **DiluCap Antioxi**   **DiluCap OD**

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