Adjustable active ingredient release? Why not?

Enables a permanent release of active ingredients, an easy-to-use tableting compound
Product Information

CompactCel® SR

BIOGRUND’s one-step matrix agent CompactCel® SR provides an easy-to-use compound which controls the sustained release of active ingredients.

CompactCel® SR forms a gel, through which the active ingredient diffuses. The use of NaCMC accelerates the gel-forming process, so the initial drug release is reduced.

The diffusion rate is affected by the cellulose ethers that are used. Mixtures with high viscous compounds form a hard gel; mixtures with low viscous compounds form a light gel, so the drug release rate can be easily adjusted.

CompactCel® SR can be used for direct compression and wet granulation. For direct compression, the active ingredient, excipients and CompactCel® SR should be mixed together in one step. For wet granulation, the active ingredient should be granulated first and then the granule (<400 µm) can easily be mixed with CompactCel® SR. BIOGRUND recommends using 10–30% within the tablet formulation.

Regulatory and quality aspects:

All CompactCel® SR formulations are developed to meet the official regulatory requirements of the user’s country for pharmaceutical products and for nutritional or dietary supplements.

Product Performance

<table>
<thead>
<tr>
<th>Active Ingredient Release</th>
<th>Protection</th>
<th>Friability</th>
<th>Compaction</th>
<th>Hardness</th>
</tr>
</thead>
</table>

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