Enabling precise, consistent delivery to the colon

Phloral® creates multiple opportunities to target small molecules, biologics and live biotherapeutic products to the distal regions of the gastrointestinal tract for enhanced localized or systemic therapy. The advanced technology utilizes independent yet complementary release mechanisms for site-specific release in the colon:

- **EUDRAGIT® S 100**, the pH triggered polymer, maintains the integrity of the coating upon arrival to the colon
- The polysaccharide is efficiently digested by trillions of bacteria present in the large intestine to guarantee release upon arrival.

What makes Phloral® unique?

Phloral® is a clinically validated technology demonstrating consistent release and improved results in patients with Inflammatory Bowel Disease and C. Difficile Infection, as well as in subjects without GIT diseases. The first Phloral® product has completed Phase 3 clinical studies with more than 800 patients.

Colon targeting comparison: Phloral® vs. single coatings

<table>
<thead>
<tr>
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<th>Trigger mechanism in colon</th>
<th>Site specificity</th>
<th>Effectiveness in patients with altered colonic conditions</th>
<th>Intra-subject reproducibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phloral®</td>
<td>pH</td>
<td>+</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>EUDRAGIT® S100</td>
<td>+</td>
<td>-</td>
<td>+</td>
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Ibekwe VC, et al. Aliment Pharmacol Ther. 28 (2008), 911-6

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