

## PHLORAL®

The world's only dual action coating for fail-safe colonic delivery

### 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.

Improved colon targeting	Reduced intra-subject variability	Unique dual-action mechanism	Suitable for various drugs and dosage forms	Success in healthy and diseased states	Conventional manufacturing	Delayed release for optimal and prolonged effects	Clinically proven	Patent protected technology

### Colon targeting comparison: Phloral® vs. single coatings

	Trigger mechanism in colon		Site specificity	Effectiveness in patients with altered colonic conditions	Intra-subject reproducibility
	pH	Bacterial			
PHLORAL®	+	+	++	++	++
EUDRAGIT® S100	+	-	+	+	+

Ibekwe VC, et al. Aliment Pharmacol Ther. 28 (2008), 911-6  
Phoral® is a proprietary technology from Intract Pharma Ltd.

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