

LARGE INTESTINE: MUCOSA LAYER ANATOMY

[Anatomical Cross-Section Illustration Area]

Sub-Layer	Description & Composition	Key Functions
Epithelium	Simple columnar epithelium. Contains high density of Goblet Cells and absorptive Enterocytes. No villi present.	Mucus lubrication, water absorption, and electrolyte transport.
Crypts of Lieberkühn	Deep epithelial invaginations (intestinal glands) extending down to the muscularis mucosae.	Cell regeneration (stem cells) and fluid secretion.
Lamina Propria	Loose connective tissue rich in blood vessels, lymphatics, and GALT (Gut-Associated Lymphoid Tissue).	Immune surveillance (solitary lymphatic nodules) and structural support.
Muscularis Mucosae	Thin inner circular and outer longitudinal layer of smooth muscle.	Local movement of mucosa to facilitate gland secretion and blood flow.

Clinical Anatomy Notes