

TANIC ACID BASED API's

ANTI-DIARRHEAL ACTIVE

GASTROENTEROLOGY

Provides symptomatic relief of diarrhea.



Anti-inflammatory and Intestinal permeability conclusion reports

ALBUMIN TANNATE



Albumin Tannate shows a **potential anti inflammatory effect** in human intestinal cells (Caco-2), by reducing proinflammatory cytokines **IL-6** and **IL-8** induced by LPS, without showing toxicity at safe concentrations.

This suggests a possible **complementary mechanism to its known antidiarrheal and astringent properties**. Albumin Tannate demonstrated a protective and restorative effect on the intestinal mucosa:

Restores barrier function after inflammatory damage.

Improves permeability parameters (TEER).

Positively modulates key genes such as claudin-2, strengthening cell-to-cell junctions.

Our studies support the use of **Albumin Tannate** as an effective agent for protecting the intestinal barrier and, therefore, as a **potential treatment for diarrheal and inflammatory intestinal conditions**.



GELATIN TANNATE



Gelatin Tannate demonstrates excellent **biocompatibility** with human intestinal epithelial cells (Caco-2).

Treatment with Gelatin Tannate **reduces the expression of the inflammatory marker IL-6**, indicating a **potential anti-inflammatory effect**.

The overall data suggest that Gelatin Tannate **may contribute to the modulation of intestinal inflammatory processes**.

Gelatin tannate helps repair and protect the intestinal lining when it's inflamed. It works by **strengthening the connections between intestinal cells**, preventing unwanted substances from leaking through.

This explains why it's so effective as an **antidiarrheal**, especially in cases involving inflammation or mucosal injury.

It might also be useful for other conditions with increased intestinal permeability, such as **irritable bowel syndrome (IBS) or infectious diarrhea**.

Gelatin tannate appears to **not only relieve symptoms** but also **restore the protective function of the intestinal barrier**. This makes it a promising and safe option for managing **digestive disorders linked to increased gut permeability**.

FINAL PRODUCTS

- Tablets
- Powder sachets
- Capsules

THERAPEUTIC USE

- Anti-diarrheal agent
- Reduces water loss and slows diarrhea
- Astringent
- Antioxidant
- Anti-inflammatory effect