

Gut Boost

ORAL SOLUTION

1 LITRE

DISINFECTION BEFORE INFECTION

Optimal gastrointestinal disinfection through synergy

Benefits of Gut Boost:

- Powerful disinfection in the entire gastrointestinal tract
- Improved digestion and gut health
- Stimulation of general health and immune system
- Effective at both high and low pH levels

Composition:

Each ml contains:

Formic acid	0.29ml
Lactic acid	0.28ml
Propionic acid	0.06ml
Essential oils (bioflavonoids)	0.03ml
Purified water	up to 1ml

Analytical constituents:

Crude Protein	0.3%
Crude oils and fats	0.4%
Crude fibre	0.1%
Crude ash	0.5%
Lysine	0.02%
Methionine	0.01%
Sodium	3%

The various organic acids and the essential oils in Pantex Holland Gut Boost have a synergetic effect resulting in optimal inhibition of pathogenic bacteria.

Dosage and administration:

Oral administration via drinking water: 0.5 – 1 ml per litre of drinking water for 5-7 consecutive days.

Withdrawal time: None

Storage: store closed at 15-25°C protected from light

Presentation: 1 L and 5 L packaging.

Shelf life: 2 years



FOR VETERINARY USE ONLY
KEEP OUT OF REACH OF CHILDREN

Pantex Holland Gut Boost is a supplement focused on **intestinal health**. This additive acts on enteric microorganisms, limiting their proliferation. It also ensures better use of food as it increases the digestibility of some nutrients. Its potent antimicrobial activity is based on natural ingredients. Specifically, based on the synergy between organic acids and essential oils (bioflavonoids).

The power of action is in a **wide range of pH's**; from very low values, like acidity in stomach, to high values, such as those found in the small intestine. It is required Organic acids at low pH values and Essential oils for alkalinity situations.

At low pH's organic acids (RCOOH) are not dissociated, therefore, their ions can penetrate the cell wall and interfere with the bacterial metabolism which lead to bacterial death.

With high pH's, however, organic acids are dissociated (RCOO⁻ and H⁺) and cannot penetrate the cell wall; the solution will act in combination with Essential oils. The role of Bioflavonoids will increase permeability and, thus, allow ion passage.

Organic acids, chemical formula = RCOOH, work at a low pH between 2 and 4.5 and are dissociated at higher pH levels (such as in the intestines pH= 6-7) into RCOO⁻ and H⁺. And so the efficacy of Organic acids to prevent pathogenic bacteria is **limited** in the intestine. Therefore we added an extra component working at higher pH namely the essential oils. (Essential oils are actually natural plant defence molecules that are produced by many plant species to defend themselves against bacterial infection). The selected Essential oils make the cell wall permeable for an ion RCOO⁻.

We see in our testing facilities that the growth of the pathogens was inhibited most effectively by the combination of Essential oils (EO) and Organic Acids (OA).

The combination of OA and EO influences the *pathogens*:

- a) ↓ ↓ Growth
- b) ↓ ↓ Motility
- c) ↓ ↓ Adherence
- d) ↓ ↓ Invasion

