

THREE LINES OF DEFENSE

INTESTINAL INTEGRITY

Improves villus height
and crypt depth
to support gut maturity⁴

Reinforces tight junctions to limit
intestinal permeability⁵



MICROBIOTA BALANCE

Oxygen scavenging

- 1) supports the growth of beneficial bacteria
- 2) interferes with undesirable populations in the intestinal tract¹

Produces beneficial **protease and phosphatase enzymes**²⁻³

Mannan oligosaccharides (MOS) in the yeast cell wall bind unwanted bacteria²

NATURAL DEFENSES

β-glucans in the yeast cell wall help reinforce natural defenses through immune system modulation⁶

- 1) Reduced systemic pro-inflammatory cytokine production⁷
- 2) Antibody (IgA) production stimulation⁷

¹Gedek, B.R. Mycoses 41, 261-264, 1999.

²Castagliuolo et al. Infection and Immunity, 67: 302-307, 1999.

³Buts, JP, et al. Pediatric Research, Vol. 60, No. 1, 2006.

⁴Banerjee, P. and Pradhan, N.R. World Poultry 22:8, 2006.

⁵Czerucka et al. Microbes and Infection 4:733-739, 2002.

⁶Stier, H. and Bischof, S.C. Clinical and Experimental Gastroenterology 2016: 9 269-279, 2016.

⁷Collier et al. J. Anim. Sci. 89:52-58. 2010.