

NTU 101

we are probiotic makers™



Lactobacillus paracasei NTU 101

Your gut support probiotic

The human gut is a complex ecosystem in which nutrients, the microbiota, and host cells interact extensively.

Gut bacteria have a significant influence not only on gastrointestinal health but also on the host's metabolism, physiology, and immune development and function.

It is now well recognized that an aberrant gut microbiota (dysbiosis) plays an essential role in disorders such as colorectal cancer, inflammatory bowel disease (IBD), obesity, type 2 diabetes, oxidative stress-related disease, and immune-mediated diseases.

Dysbiosis of gut microbiota can also contribute to constipation, a common functional gastrointestinal disorder, with prevalence in the general population of approximately 16%.

In the elderly population the incidence of constipation is even higher, and females are more affected by severe constipation compared to males.

NTU 101 positively modulates the gut microbiota, improving gastrointestinal function

Hypoallergenic

Vegetarian

Gluten free

Kosher

Halal

GMO free

Genome Sequenced

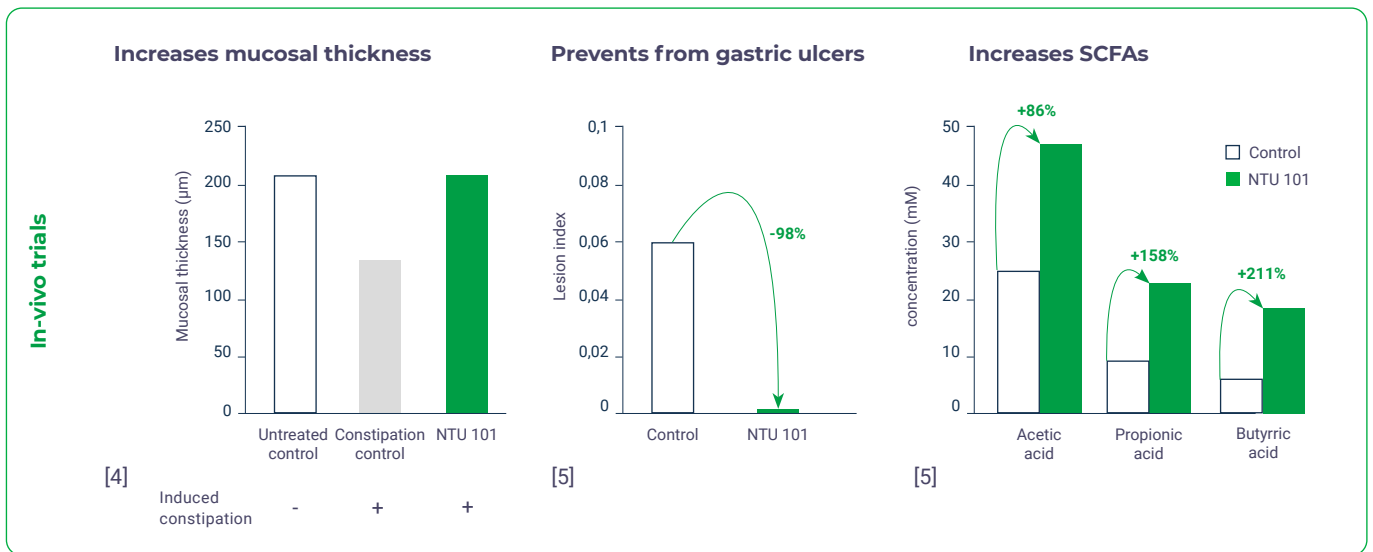
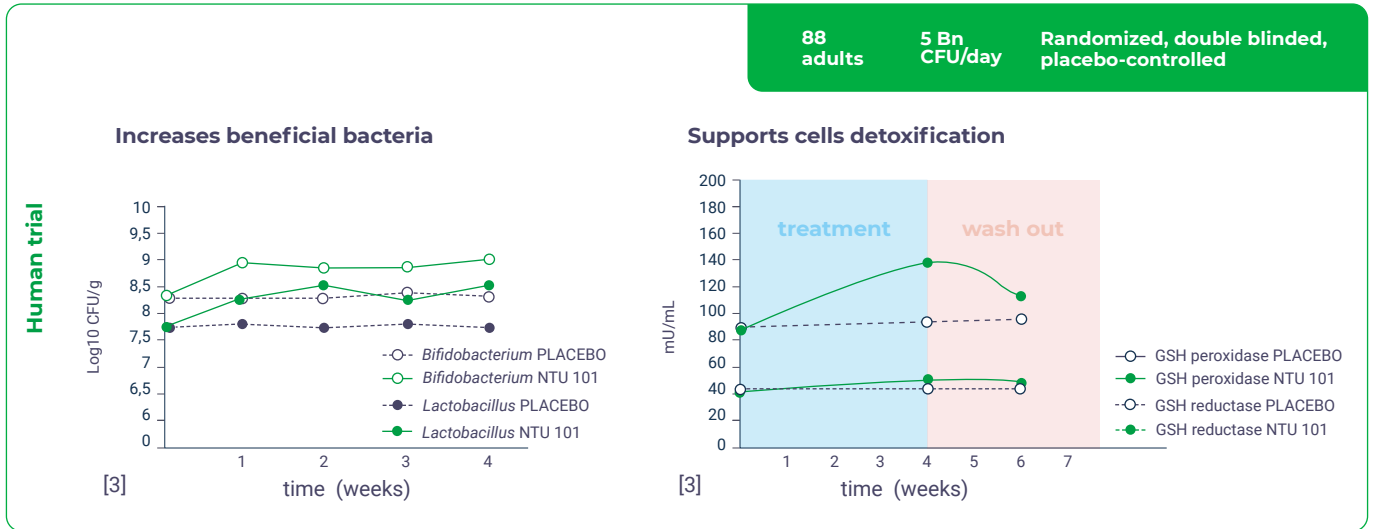
Gastric resistant

NTU 101 positively modulates the microbiota

NTU 101 has the ability to increase counts of *Bifidobacterium spp.* and *Lactobacillus spp.* in fecal samples, as highlighted in clinical studies. These studies indicate a modulation of gut microbiota with improved ratio of beneficial to harmful gut bacteria, and could be at the basis of NTU 101's mechanism of action.

This modulation, together with the improvement of other intestinal biomarkers observed in the pre-clinical studies which include: increased levels of short-chain fatty acids (SCFAs), reduced fecal pH value, increased mucosal thickness, and increased number of goblet cells, can lead to improvement of bowel movement and of intestinal constipation^[3-4].

NTU 101 supports your gut health



NTU 101 facts

- *L. paracasei* NTU 101 is supported by more than 25 publications in pre-clinical and clinical studies.
- NTU 101 has been proven to improve gastrointestinal health.
- Clinical evidence indicates that NTU 101 can boost bifidobacteria and lactobacilli in the human gut, improve gut functionality and improve host's anti-oxidative capacity.
- Moreover, NTU 101 has proven to be effective in relieving constipation, gastric lesions, and ulcerative colitis^[4-7].



[1] Forootan M, et al., Medicine (Baltimore) 97(20):e10631 (2018) [2] Zhang YJ, et al., Int J Mol Sci 2;16(4):7493-519 (2015) [3] Chen CL et al., Heliyon. 22;6(9):e04979 (2020)
 [4] Chen CL et al., Heliyon 21;6(4):e03804 (2020) [5] Kao L et al., J Microbiol Immunol Infect 53(2):266-273 (2020) [6] Chang CY and Pan TM, Food Funct 11;10(12):7634-7644 (2019)
 [7] Chen CL et al., J Food Drug Anal 27(1):83-92 (2019)