



# Totipro<sup>®</sup>

## Postbiotics PE0301

The Next Generation of Oral Health

### ▶ Postbiotic Blends :

*Lactobacillus salivarius* AP-32 fermentation powder

*Lactobacillus plantarum* LPL28 fermentation powder

*Lactobacillus paracasei* ET-66 fermentation powder

### ▶ Blend Information :

Specification : Lactic acid (g/100g) >5

Daily Dosage : 150 mg/Day

Storage : Store in cool place and avoid direct sunlight

Shelf Life : 3 years

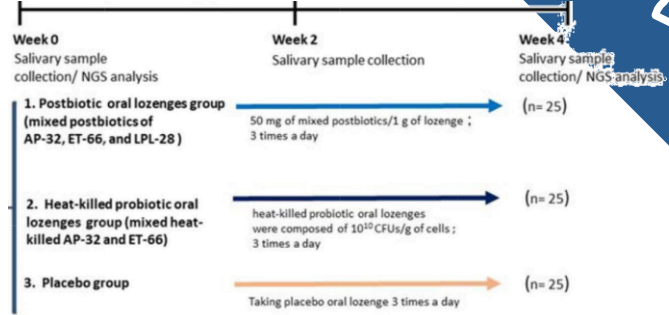
### ▶ Functionality :

- Improve oral microbiota and inhibit dental plaque-forming pathogens.
- Support gingiva health and enhance oral immunity.

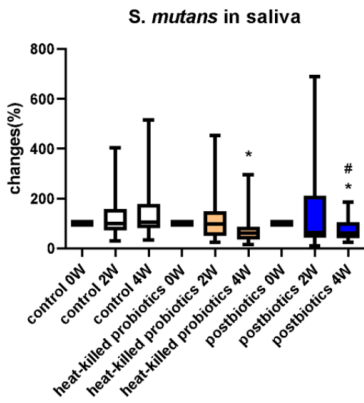


## Clinical Study :

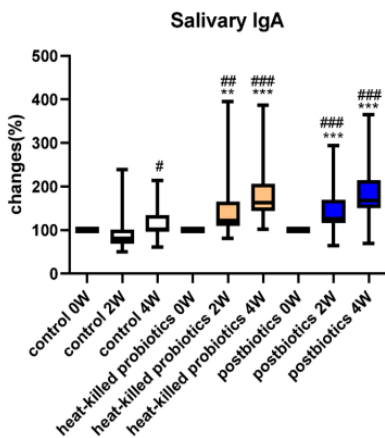
Participants were instructed to clean their oral cavity and then take three oral lozenges (3 g) daily for 4 weeks. 2 mL saliva samples were collected at weeks 0, 2, and 4 for oral microbiota, IgA levels, and oral pathogen analysis.



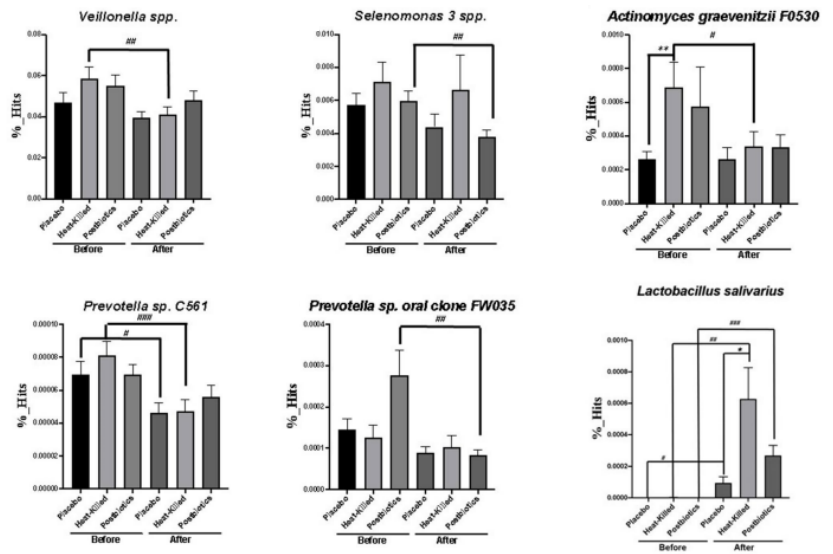
### RESULT 01 | TOTIPRO®PE0301 has good antibacterial effects on tooth decay bacteria (*S. mutans*).



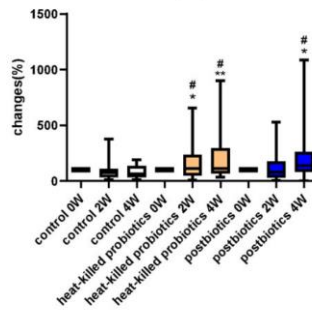
### RESULT 03 | TOTIPRO®PE0301 increases salivary IgA concentration to enhance the immune system.



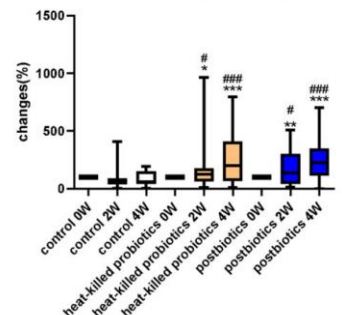
### Result 02 | TOTIPRO®PE0301 increases lactic acid bacteria and inhibits the growth of oral pathogens in the oral cavity.



### Bifidobacterium population in saliva



### Lactobacillus population in saliva



- Veillonella spp.* : bad breath, dental caries pathogen
- A. graevenitzii.* : Lung abscess, pneumonia, dental caries pathogen
- Prevotella spp.* : bad breath, Periodontitis pathogen
- Selenomonas spp.* : bad breath pathogen
- Prevotella spp.* : bad breath, Periodontitis pathogen
- Lactobacillus salivarius* : Oral benefit bacteria pathogen



GMP REGISTERED Dietary Supplements

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