CLAIMS

1. A composition comprising the bacterial strain *Lactobacillus paracasei* DG for use in the treatment and/or prevention of a pathological condition sensitive to treatment with butyric acid and/or salts thereof and/or with succininc acid.
2. The composition according to claim 1, wherein said intestinal pathological condition is selected from: diarrhoea, intestinal inflammation, ulcerative colitis, gastric atrophy, intestinal diverticula, stenosis, obstructions and diabetic neuropathy.
3. A composition comprising the bacterial strain *Lactobacillus paracasei* DG for reducing the intestinal microbiota proliferation of pathogenic microorganisms, and/or for promoting the integrity of the intestinal mucosa, and/or for promoting the processes of repair of intestinal.
4. A composition comprising the bacterial strain *Lactobacillus paracasei* DG for directly and/or indirectly increasing intestinal microbiota production of butyric acid and/or salts thereof, and/or folic acid and/or salts thereof, and/or niacin and/or salts thereof; and/or decreasing the intestinal microbiota production of succinic acid and/or salts thereof, from bacteria of the genus Coprococcus and/or Blautia
5. A composition comprising the bacterial strain *Lactobacillus paracasei* DG for modifying the density of the bacterial population of the genus Coprococcus and/or Blautia in the intestinal microbiota, preferably for increasing the Coprocossus bacterial population and/or for decreasing the Blautia bacterial population.
6. The composition for use according to anyone of claims 1-5, wherein said at least one bacterium of the genus *Lactobacillus* species *paracasei* is a live or a dead bacterium, or a bacterial lysate or extract.
7. The composition for use according to anyone of claims 1-6 comprising 15-30 billion CFU, preferably 20-25 billion CFU of the bacterial strain *Lactobacillus paracasei* DG.
8. The composition for use according to anyone of claims 1-7 for oral administration, preferably in the form of pills, capsules, tablets, granular powder, hard capsules, water-soluble granules, sachets or pellets.
9. The composition for use according to anyone of claims 1-8 formulated in liquid form, preferably as a syrup or beverage, or is added to a food, preferably to a

yogurt, cheese or fruit juice, or in a form capable of exerting an action topically, preferably as an enema.

10. The composition for use according to anyone of claims 1-9 further comprising dietary fibres having prebiotic activity, preferably FOS, inulin or guar gum, or comprises other substances such as vitamins, trace elements and/or enzymes.