
Review March 2025

Microorganisms used as probiotics in animal diets and are suitable for use in animal fed	
Aspergillus	<i>oryzae</i> <i>niger</i>
Bacillus	<i>amyloliquefaciens</i> <i>cereus</i> <i>coagulans</i> <i>lentus</i> <i>licheniformis</i> <i>megaterium</i> <i>mesentericus</i> <i>polymyxa</i> <i>pumilus</i> <i>subtilis</i> <i>thuringiensis</i> <i>toyonensis</i>
Bacteroides	<i>amylophilus</i> <i>capillosus</i> <i>ruminocola</i> <i>suis</i>
Brevibacillus	<i>laterosporus</i>
Bifidobacterium	<i>adolescentis</i> <i>animalis</i> <i>bifidum</i> <i>bifidius</i> <i>thermophilus</i> <i>longum</i> <i>pseudolongum</i> <i>infantis</i> <i>lactis</i>

<i>Candida</i>
<i>pintolepisii</i>
<i>utilis</i>
<i>Clostridium</i>
<i>butyricum</i>
<i>Coriobacteriaceae</i>
<i>novus</i>
<i>Corynebacterium</i>
<i>ammoniagenes</i>
<i>casei</i>
<i>flavescens</i>
<i>variabile</i>
<i>Cyberlindnera</i>
<i>jadinii</i>
<i>Eschericia</i>
<i>coli</i>
<i>Enterococcus</i>
<i>faecium</i>
<i>cremoris</i>
<i>diacetylactis</i>
<i>intermedius</i>
<i>lactis</i>
<i>thermophilus</i>
<i>faecalis</i>
<i>Lactobacillus</i>
<i>thermophilus</i>
<i>acidophilus</i>
<i>brevis</i>
<i>buchneri</i>
<i>bulgaricus</i>
<i>casei</i>
<i>cellobiosus</i>
<i>curvatus</i>
<i>delbrueckii subspecies bulgaricus</i>
<i>diolivorans</i>
<i>farciminis</i>
<i>fermentum</i>
<i>helveticus</i>
<i>jensenii</i>
<i>kefiranofaciens M1</i>
<i>kefiri</i>

paracasei
plantarum
plantarum LP 28
reuterii
rhamnosus
lactis
salivarius
sobrius
gallinarum

Lactococcus
lactis

Leuconostoc
mesenteroides

Megasphaera
elsdenii

Pediococcus
acidilactici
cerevisiae(damnosus) .
parvulus
pentosaceus

Prevotella
shermanii
freudenreichii
acidipropionici
jensenii

Propionibacterium
acidpropionici
freudenreichii
shermanii

Rhodopseudomonas
palsustria

Rhizopus
oryzae
microsporus
oligosporus
stolonifera

Saccharomyces
bourrdii
cerevisiae
servisia

Streptococcus (Streptococcus=Enterococcus) <i>cremoris</i> <i>diacetylactis</i> <i>faecalis</i> <i>faecium</i> <i>gallolyticus</i> <i>intermedius</i> <i>salivarius subsp. thermophilus</i> <i>bovis</i> <i>lactis</i>
Trichosporon <i>mycotoxinivorons</i>
Yeast <i>Debaryomyces</i> <i>Galactomyces</i> <i>Hanseniaspora</i> <i>Hansenula</i> <i>Isaatchenkaia</i> <i>Pichia</i>
Fungal <i>Geotrichum</i> <i>Penicillium</i> <i>Aspergillus</i>

Note:

1. Bacterial starter cultures in general more than 10^8 CFU/g or CFU/ml are added to the fermentation substrate and bring about desirable metabolic reactions
2. Yeast starter culture in general more than 10^8 CFU/g or CFU/ml are added to bring about a desirable metabolic reaction
3. Fungal starter culture in general more than 10^8 CFU/g or CFU/ml are added to bring about a desirable metabolic reaction

Reference:

1. Food and Agriculture Organization of the United Nations: FAO Animal Production and Health, Probiotic in Animal Nutrition
2. Direct-fed Microbial, Enzyme & Forage Additive Compendium: The Regulatory Environment
3. Food and Drug Administration, Center for Veterinary Medicine
4. *The use of probiotics in animal nutrition, Journal Prob Health* 2015, 3:2
5. Food fermentation: microorganisms with technological beneficial use, International Journal of Food Microbiology, 2012, 154:87-97