

Direct-Fed Microorganisms

United Animal Health, Inc. utilizes direct-fed microorganisms in the manner stated under the Association of American Feed Control Officials (AAFCO).

3.14 Direct-Fed Microorganisms

The following microorganisms were reviewed by the Food and Drug Administration, Center for Veterinary Medicine, and found to present no safety concerns when used in direct-fed microbial products. These microorganisms must be nontoxicogenic.

<i>Aspergillus niger</i>	<i>Bifidobacterium thermophilum</i>	<i>Lactobacillus fermentum</i>
<i>Aspergillus oryzae</i>	* <i>Enterococcus cremoris</i>	<i>Lactobacillus helveticus</i>
<i>Bacillus amyloliquefaciens</i>	* <i>Enterococcus diacetylactis</i>	<i>Lactobacillus lactis</i> / <i>Lactobacillus delbrueckii</i> **
<i>Bacillus coagulans</i>	<i>Enterococcus faecium</i>	<i>Lactobacillus plantarum</i>
<i>Bacillus lentus</i>	* <i>Enterococcus intermedius</i> / <i>Streptococcus intermedius</i> **	<i>Lactobacillus reuteri</i>
<i>Bacillus licheniformis</i>	* <i>Enterococcus lactis</i>	<i>Leuconostoc mesenteroides</i>
<i>Bacillus pumilus</i>	* <i>Enterococcus thermophilus</i> / <i>Streptococcus thermophilus</i> **	<i>Megasphaera elsdenii</i> (cattle only)
<i>Bacillus subtilis</i>	<i>Lactobacillus acidophilus</i>	<i>Pediococcus acidilactici</i>
<i>Bacteroides amylophilus</i>	<i>Lactobacillus animalis</i>	<i>Pediococcus cerevisiae</i> / <i>Pediococcus damnosus</i> **
<i>Bacteroides capillosus</i>	<i>Lactobacillus brevis</i>	<i>Pediococcus pentosaceus</i>
<i>Bacteroides ruminicola</i>	<i>Lactobacillus buchneri</i> (cattle only)	<i>Propionibacterium acidipropionici</i> (cattle only)
<i>Bacteroides suis</i>	<i>Lactobacillus bulgaricus</i> / <i>Lactobacillus delbrueckii</i> **	<i>Propionibacterium freudenreichii</i>
<i>Bifidobacterium adolescentis</i>	<i>Lactobacillus casei</i>	<i>Propionibacterium shermanii</i> / <i>Propionibacterium freudenreichii</i> **
<i>Bifidobacterium animalis</i>	<i>Lactobacillus cellobiosus</i> / <i>Lactobacillus fermentum</i> **	<i>Rhodopseudomonas palustris</i> (broiler chickens only)
<i>Bifidobacterium bifidum</i>	<i>Lactobacillus curvatus</i>	<i>Saccharomyces cerevisiae</i>
<i>Bifidobacterium infantis</i>	<i>Lactobacillus delbrueckii</i>	Yeast (refer to AAFCO OP)
<i>Bifidobacterium longum</i>	<i>Lactobacillus farciminis</i> (swine only)	

*Formerly cataloged as *Streptococcus*.

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(Proposed 1991, adopted 1993, amended 2001, 2004, 2006, 2011, 2017, 2018 rev.1) 2002 Official Publication (OP). Association of American Feed Control Officials Inc. (AAFCO).