

Mannan Oligosaccharide Source (MOS)



Product Description

CitriStim mannan oligosaccharide source is a proprietary yeast (*Pichia guilliermondii*) supplement for all life stages and classes of livestock, companion animals, and poultry. It is a co-product of citric acid manufacturing. Due to the use of high-quality raw materials and the single production site, CitriStim mannan oligosaccharide source has a consistent composition and is cost effective. This product is not a source of viable microbial cells.

Guaranteed Analysis

Crude protein, min.	38.0%
Crude fat, min.	1.5%
Crude fiber, max.	10.0%
Moisture, max.	8.0%

Applications

- Unique source of mannan oligosaccharide
- Research documents CitriStim's deleterious effect on *E. coli* populations. Substances comparable to CitriStim have also been shown to have the same effect on other pathogenic bacteria, such as *Salmonella*, *Klebsiella*, and *Clostridium*.

Ingredient

Extracted citric acid presscake

AAFCO Ingredient Definition

Extracted citric acid presscake

Directions for Use

CitriStim mannan oligosaccharide source suggested dietary inclusion levels:

- Swine — 0.5-2 kg/mt of complete feed
- Poultry — 0.5-2 kg/mt of complete feed
- Cattle — 1-4 kg/mt of milk replacer
0.5-1 kg/mt of complete feed
- Aquaculture — 1-2 kg/mt of complete feed
- Companion Animal — 1-2 kg/mt of complete feed
- Rabbits — 1-2 kg/mt of complete feed

For specific recommendations, contact your ADM Alliance Nutrition supplier

Physical Characteristics

Appearance: Light brown, free-flowing powder.
Typical bulk density: 560 kg/m³

WHY ADM CITRISTIM MANNAN OLIGOSACCHARIDE SOURCE

- ADM, one of the world's largest fermentors, extracts CitriStim mannan oligosaccharide source from its proprietary fermentation process.
- Product consistency is assured by utilizing defined, quality renewable resources.
- Single-site production helps guarantee consistency.
- Proven functionality via *in-vitro* analysis at an independent scientific institution.
- Demonstrated efficacy for increasing animal performance in research trials.
- Spray dried.
- ADM Alliance Nutrition® — one source for virtually all your ingredient needs.

ANIMAL
NUTRITION

BEEF

DAIRY

SWINE

POULTRY

AQUACULTURE

COMPANION
ANIMAL

SPECIALTY

For customers around the world, ADM draws on its resources – its people, products, and market perspective – to help them meet today's consumer demands and envision tomorrow's needs.

adm.com/SpecialtyIngredients

800-775-3295

ANI.SpecialtyIngredients@adm.com



Storage & Handling

CitriStim mannan oligosaccharide source should be protected from moisture. Reseal open containers. When stored in unopened original containers and under recommended storage conditions, the shelf life is 24 months.

Ordering Information

Product number:	550310
Packaging:	totes or 50 lb bag
Customer service:	800-775-3295 or ANI_Service@adm.com

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