



natural
biologics®
solutions by nature

OPTIWEAN® FACTS

- Formulated to meet the calf's changing immune competence.
- Natural ingredients to support gut health and development.
- Enhanced immune support for overall animal health and productivity.

► Program Description:

Optiwean is an all-natural, highly concentrated product formulated for calf immune support. The biologically active compounds from these natural sources have well-established benefits to improve gut health, reduce pathogen and protozoa loads, enhance immune responses and stimulate growth of beneficial gut microbes. By combining multiple technologies into Optiwean, calves receive continuous protection from the many health challenges they face. To best meet the calf's changing immune status, include Optiwean through weaning.

► Modes of Action:

Algal beta glucan – Beta glucan is a very effective immune modulator, resulting in improved antibody production as the calf's immune system develops.

Citrus extract – Citrus extract serves as a highly effective prebiotic, providing a preferred source of complex carbohydrates for beneficial bacteria in the calf's gut. This improves gut health, nutrient digestion and competition against pathogens. Citrus extract has been shown to be more effective than essential oils, organic acids and soluble fibers. (Figure 1).

Manan Oligosaccharide (MOS) –

The MOS component of the Optiwean program provides effective pathogen-binding in the GI tract. (Figure 2).

Sarsaponin – Derived from the Yucca cactus, sarsaponin disrupts protozoa cell membranes, reducing the challenges young calves face from Cryptosporidium and Coccidiosis. Research shows that sarsaponin can improve gut nitrogen retention, leading to more efficient lean tissue growth and will spare VFAs for use as an energy source for the growing calf.

Figure 1 Growth Rates of *Lactobacillus acidophilus* by Nutrient Supply

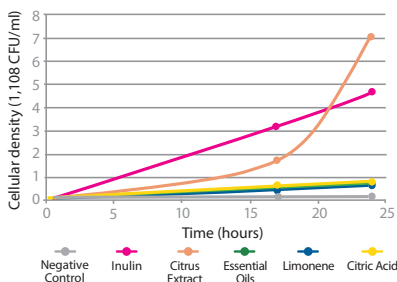
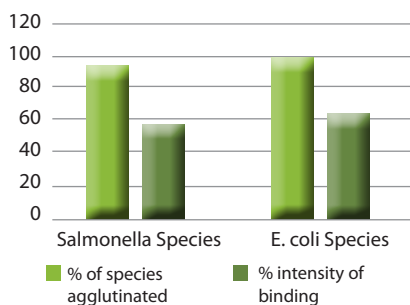
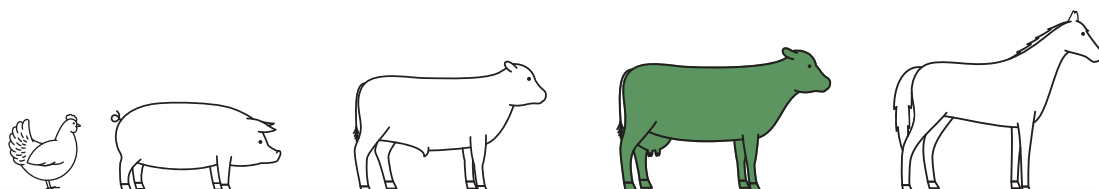


Figure 2 Binding Effectiveness Against Pathogens



Get your calves off to a strong start with Optiwean.
Visit naturalbiologics.com today.



To learn more, visit naturalbiologics.com or 844.NAT.BIOL (628.2465)



**natural
biologics**[®]
solutions by nature

OPTIWEAN[®]

Optiwean is an all-natural, highly concentrated product formulated with *Saccharomyces cerevisiae* cell wall, dried citrus pulp, lemon extract, algal beta glucan and *Yucca schidigera* extract. Optiwean is designed to be used as a supplement for complete diets for dairy calves. The biologically active compounds from these natural sources have well-established benefits to improve gut health, reduce pathogen and protozoa loads, enhance immune responses and support healthy gut development.



► **Ingredient Composition:** Hydrolyzed yeast, dried citrus pulp, lemon extract, plant protein product and *Yucca schidigera* extract.

► **Feeding Directions:**
To be included in complete diets as described below, or as recommended by your nutritionist. Through weaning: Add 2g to milk for each calf per day or 7lbs. per ton of milk replacer.

► **Density:** 31-34 lb/cu ft

► **Appearance:** Light tan, free-flowing powder

► **Packaging:** Tan, 3 kg zip-top pouch or 25 kg bag

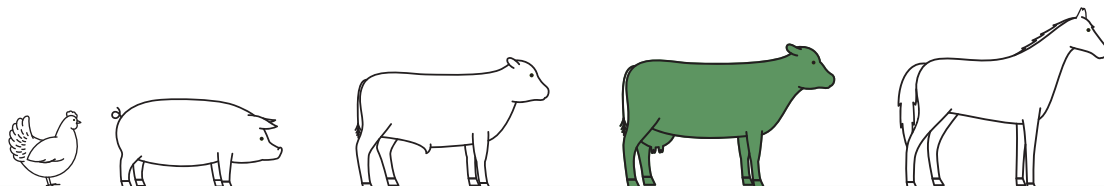
► **Shelf Life:** Two years from date of manufacture when stored in a cool, dry place in the original package

► **Precautions:** Use only as directed

Guaranteed Analysis:		
Crude protein	not less than	20.0%
Crude fat	not less than	0.5%
Crude fiber	not more than	7.0%
Moisture	not more than	11.0%
Ash	not more than	12.0%

See how Optiwean can benefit your young calves.
Visit naturalbiologics.com today.

© Natural Biologics, Inc. 2022 All Rights Reserved
Natural Biologics, Solutions by Nature, Optiwean
and Natural Biologics logo are trademarks of
Natural Biologics, Inc., Newfield, NY USA.
2203-060



To learn more, visit naturalbiologics.com or 844.NAT.BIOL (628.2465)