



Role of Prebiotics in Animal Nutrition

FOSSENCE®



About FOSSENCE®

FOSSENCE® is a clinically studied prebiotic dietary fiber comprising of short chain fructo-oligosaccharides (fructose chains with a terminal glucose unit via β 2-1 glycosidic bonds). Short chain FOSSENCE® consists of molecules with degrees of polymerization between 3 and 5. These naturally occurring fructo-oligosaccharides or oligo-fructose are produced by TATA NQ via a patented process of biotransformation of sucrose (cane sugar) by the action of living microbial cells.



**Promoting
Digestive
Health**



**Enhance
Disease
Prevention**



**Improved
Growth
Performance**

Certification



Compliant



L95
FOSSENCE

FOS Content : $\geq 95\%$
Solid content : $\geq 72^\circ \text{Bx}$
Fiber content : $\geq 68\%$

P95
FOSSENCE

FOS Content : $\geq 95\%$
Moisture content : $\leq 5\%$
Fiber content : $\geq 90\%$

L55
FOSSENCE

FOS Content : $\geq 55\%$
Solid content : $\geq 75^\circ \text{Bx}$
Fiber content : $\geq 41\%$

- Enhance health, improve immune response, and performance across species.
- Reduce antibiotic reliance, fostering sustainable and responsible practices.
- Improve growth performance with advanced nutritional strategies.

Unlock the FOSSENCE® Advantage A Journey Towards Vibrant Livestock and Aquatic Life

Discover the transformative power of Fructo-oligosaccharides (FOS) in enhancing the health, growth, and sustainability of your poultry, cattle, and aquaculture endeavors.

Poultry

Fueling Poultry Prosperity

Studies suggest that **Fructo-oligosaccharides (FOS)** helps chickens by modulating gut microbiota for better health, improving feed conversion ratio, and enhancing antioxidant activity and immune response, which may lead to higher body weight gain.



Gut Harmony:

FOS shapes poultry gut bacteria, promoting beneficial microbes while curbing pathogens, reducing infection & possible antibiotic use.



Digestive Excellence:

Enhanced intestinal morphology, FOS optimizes nutrient absorption for thriving poultry.



Immune Boost:

FOS elevates antibody production, fortifying immunity and disease resistance, reducing need for antibiotic use.



Sustainable Support:

Embrace FOS for healthier growth, reduced antibiotic dependence, Significant daily gain and enhanced performance.

Dosage:

5g per kg FEED



Cattle

Nurturing Cattle Wellbeing



Lifeline for Livelihoods:

Dairy cattle provide year-round revenue, underscoring their importance for millions.



Early-Life Resilience:

FOS safeguards dairy calves from gastrointestinal challenges, securing future industry success.



Smooth Transitions:

FOS supports stress-free diet transitions, ensuring optimal digestion and growth.



Rumen Health:

Choose FOS to maintain rumen health without relying on antibiotics, promoting long-term sustainability.



Calf Growth Performance:

Improved digestive health supports enhanced growth performance in calves

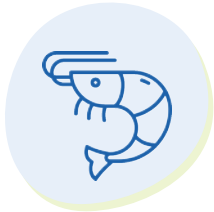
Dosage:

0.5g per kg FEED



Aquaculture

Empowering Aquatic Life



Growth Optimization:

FOS enhances shrimp growth performance, boosting specific growth rates and overall weight.



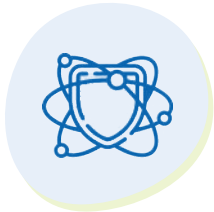
Improved Immunomodulation:

FOS boosts immunity in fish and shrimp, bolstering their ability to combat challenges.



Microbial Balance:

FOS modulates shrimp gut flora, fostering a healthier their microbial community.



Versatile Immunity:

FOS enriches immunity characteristics, creating more robust and thriving aquatic populations, with antibiotic free growth

Dosage:

10g per kg FEED





Lab scale prototype development



Support on ingredient through primary & clinical research



Analytical support

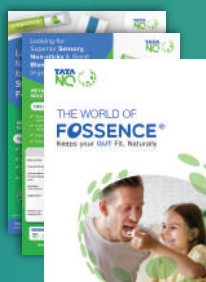


Application development



Technical troubleshooting

Brochures



Whitepapers



Concept Notes



Scan to download all resources



Technical Datasheets



Publications



Scientific Reviews



The global nutritional solution provider from Tata Chemicals

Contact us:



nutra@TataChemicals.com



www.TataNQ.com



<https://www.linkedin.com/company/tata-nq/>