

# 1 Sulphite-Free Formula for seafood shelf-life extension and melanosis control

## ND Pharma & Biotech



## X-Fresh TM

by

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Seafood, specially shell-protected seafood are a sensible material. difficult to protect and preserve to offer to consumers with the better possible state.

Historically the fight against biodeterioration and melanosis were X-Fresh TM is more safe and easy- associated to shellfish. The active made through sulphite and sulphite to-use than sulphite. Sulphite and ingredient is safe and easy to use derived compounds, with more derived compounds are products and do not leave chemical residues restrictions as the public health and which an effect of masking or taints. His main effect is to inhibit scientific knowledge about these compounds became deeper and off the black color. Sulphite, shellfish and thus far to avoid the more accessible to general public.

The concerns of industry about safe, easy-to-use and non-residual/clean label (regarding to allergies), is constantly increasing, especially

those relatives to the onset of Sulphite melanosis both on wild-capture and compounds are corrosive and can farmed species.

ND Pharma & Biotech developed a plants formula sinale significantly the shelf life of these health and occupational problems products that is undoubtfully into an incremented especially due to uncontrolled uses market value, in terms of quality within fleets and processing plants. expressed and perceived by clients and consumers.

melanosis, in fact, turning whitening the enymes present within the (specifically sodium metabisulphite) malanosic "black color", sustaining do not fight with other bio- natural color and appearance with deterioration elements resulting into a shelf life extension significantly degradation of shellfish, malodors, longer poor-quality products and shorter species. The taste became also shelf life.

and sulphite-derived cause migration of materials into product as well as damages to and equipment within that increase factories. Sulphite cause also converted to operators and employees

> X-Fresh TM is designed and engineered to solve that problems than sulphite-treated improved.

X-Fresh TM is approved within the European Union (EC2006/52) and Nordic Economic area. Additive approval as E-586 In the USA is regulated by FDA 21 CFR S.101.100 (a) (3) (ii) (c)

In China is regulated by FAHS (GB 2760-1996). Antioxidant classification (04.013) Other relevant legislation, as Australia, New Zealand, South Africa, Canada, etc., please consult us.



## ND Pharma & Biotech. Leading Innovation for Life.

- Better Taste
- Longer Shelf Life
- Easy to Use
- No downside effects of SMBS
- Up to 10 days retail life
- Improvement of appearance

Higher added value to certain species as in *Paenus Vannamei* 

- No tails-turn black after cooking
- No breathing problems and other safety and/or health concerns for operators and employees.
- Healthier additive for consumers

- Better color, odor and texture products
- Allows sweet natural flavor of products
- Perfect for those desiring "chemical-free" products and processing
- No shells erosion as in SMBS
- Top quality product placement for retailers
- Virtually zero-rejects from customers
- Higher degree of satisfaction from final consumers
- No health concerns due to allergic reactions, especially in children.
- Innovation and Safety
- Liquid Technology

- Suitable to use on-board, fishfarms, processing facilities, elaboration plants, etc.
- Elimination of Bacteria in fish and shellfish used in conjunction with SterilFood TM
- Control of undesirable enzymatic activity in shell-coated species
- Enhances performance of handing, storage, processing, and other manipulation of raws
- Dramatically improvement of shelf life.



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