

ANC ENZYME SOLUTIONS PTE LTD

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ORase™ TFU99/ORase™ TFU1000

Introduction:

Enzymatic Browning and Non-Enzymatic Browning are two reactions that both impact on the browning of Soya products during production. Enzymatic Browning is a complex series of reactions that are triggered by the presence of natural Polyphenols and an already present Enzyme called Polyphenol Oxidase. Non-Enzymatic Browning is the reaction of Amino Acids with reducing sugars already present naturally, the Maillard Reaction.

The use of *ORase™ TFU99/ORase™ TFU1000* is intended to retard both of these reactions reducing the amount of normal browning produced in the processes of Soya Milk or Tofu production.



Physical & Chemical Properties of ORase™ T99/ORase™ T1000:

ORase™ TFU99/ORase™ TFU1000 is a two part combination of specialty anti-oxidants and is specifically designed to limit the browning reaction in the manufacture of Soya Milk and Tofu without impacting the final flavor.

ORase™ TFU99

Appearance : Translucent Brown Liquid
Odor : Slight fermentation odor
pH of 1% Solution : 5.2±0.5

ORase™ TFU1000

Appearance : Translucent Brown Liquid
Odor : Slight fermentation odor
pH of 1% Solution : 5.2±0.5

Dosage & Method of Application:

ORase™ TFU99 is added to the Soya Bean during the initial Soaking stage after washing. The recommended dosage is 400mL-500mL per 1000Kg of water to soak 1000Kg of Soya Bean. After soaking the Soya Bean is Crushed and emulsified into the milk product.

For Soya Milk *ORase™ TFU1000* is then added 30 minutes prior to the Pasteurization of the final milk. For Tofu Production *ORase™ TFU1000* is then added 30 minutes prior to the Pasteurization or Co-Coagulation of the Soya Protein to Tofu. The recommended dosage of *ORase™ TFU1000* is 200mL-300mL per 1000Kg of Soya Milk emulsion.

Storage & Shelf life:

ORase™ T99/ORase™ T1000 has to be stored in a cool & dry place. Temperature of 10-20°C is ideal for storage. Product is recommended to be used within 6 months from the date of manufacture.

Disclaimer-All suggestions and data presented are based on information and tests that are believed to be accurate and reliable, but are not to be taken as a guarantee, expressed or implied, for which seller assumes legal responsibility. It is recommended that the user carry out their own tests to determine the suitability of the product to his/her process before incorporating the product on a commercial scale. ANC Enzyme Solutions Pte Ltd