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PRODUCT INFORMATION

THIAMINE LAURYSULFATE (TLS)

- ❏ Vesta Ingredients has been a leader in the nutraceutical industry for over 15 years. The superior quality of Vesta Brand raw ingredients has ensured the success of our clientele.
- ❏ Vesta FreshExtendTLS™ is a derivative of vitamin B1, prepared with thiamine hydrochloride and sodium laurylsulfate (SLS), which functions in shelf life extension with secondary benefits in nutritional fortification.
- ❏ TLS functions mainly as a bacteriostatic food and beverage additive, responsible for inhibiting growth of fungi and Lactobacilli, in addition to many common bacteria that can lead to spoilage and foodborne illness.

BENEFITS OF FRESHEXTENDTLS™

- ❏ Vesta Brand FreshExtendsTLS™ is offered at the highest purity (100%).
- ❏ TLS is nontoxic, GRAS, and has the additional feature of providing nutritional value as a derivative of vitamin B1 (thiamine).
- ❏ TLS has greater thermal stability and ability to function over a wider pH range than many other preservatives.

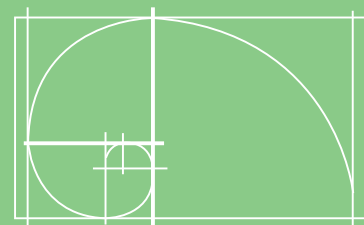
**These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.*



www.freshextendtls.com



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WHY IS TLS USEFUL?

Thiamine dilaurylsulfate (TLS) blocks proliferation of harmful microbes that cause food and beverage spoilage. TLS can be utilized to preserve a varied assortment of foods from meat and dairy to grain and rice products to pickled products and condiments.

HOW DOES TLS PROMOTE FRESHNESS AND EXTEND SHELF LIFE?

TLS is a combination of thiamine (vitamin B1) and sodium laurylsulfate (SLS). The SLS portion of the compound functions as an anionic surfactant, disrupting the lipid structure of the microbial cell membranes, while the thiamine portion combats the oxidative process that leads to rancidity.

PRODUCT INFORMATION

Appearance: White Crystalline Powder
Odor/Taste: Characteristic
Solubility: Complete in an aqueous matrix
≤ 200 ppm to Thiamine and SLS

PACKAGING AND STORAGE

Store in a cool, dry place
Do not freeze
Keep away from direct light
Package Unit: 1, 5, 10 kg

USES

Preservative
Nutritional fortification as vitamin B1
Fine Chemical

Innovative Products at Competitive Prices™

Quality & Trust

Vesta is proud to introduce FreshExtend TLS™, which is manufactured under cGMP manufacturing guidelines. We are environmentally and socially responsible and dedicated to the nutrition industry. Vesta Ingredients is committed to being a reliable business partner

Vesta Ingredients, Inc.
5767 Thunderbird Rd.
Indianapolis, IN 46236
USA

Ph: (317) 895-9000,
888-55VESTA
Fax: (317) 895-9340

info@vestaingredients.com
www.vestaingredients.com

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