

## SPECIFICATION SHEET

# Tocobest™TPGS-N

## D-alpha-Tocopheryl Polyethylene Glycol 1000 Succinate

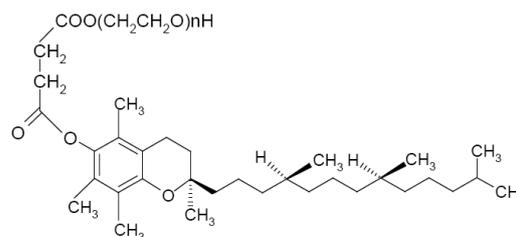
CAS: 9002-96-4

Chemical Formula:  $C_{33}H_{54}O_5 \cdot (C_2H_4O)_n$   $n \approx 23$

Molecular Weight: N.A.

INCI name: Tocofersolan

Synonym: Tocopherosolan



### GENERAL CHARACTERISTICS

Description	D-alpha-Tocopheryl Polyethylene Glycol 1000 Succinate, also called Natural Vitamin E Polyethylene Glycol Succinate, water-soluble natural Vitamin E, TPGS-N, or Tocofersolan, etc., is a product of natural Vitamin E. It is an esterified product of natural Vitamin E acid succinate and polyethylene glycol. TPGS-N is soluble completely in water and produces a clarified and transperence solution. The maximum solubility of TPGS-N is 20%.
Appearance	White to yellowish waxy solid

### ANALYTICAL CHARACTERISTICS

Identification	GC: The retention time for the major peak of the test solution corresponds to that in the standard solution, as obtained in the test for content.
Water solubility	Meet the requirements
Specific optical rotation	Min +24°
Acidity	Max 0.27ml
Assay(as D-alpha-tocopherol)	Min 25%
Free D-alpha-tocopherol	Max 1.5%
Heavy metals	Max 10ppm
Arsenic	Max 3ppm
Pb*	Max 2ppm
Hg*	Max 0.1ppm
Cd*	Max 1ppm

\*Perform the test regularly



## MICROBIAL CHARACTERISTICS

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Total plate count	Max 1000 CFU/g
Total yeast & mold	Max 100 CFU/g
Coliforms	Max 30 MPN/100g
<i>Salmonella</i>	Negative/25g
<i>Staphylococcus</i>	Negative/1g

## COMPENDIAL REQUIREMENTS

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The TPGS-N contained in this product meets all requirements of the relevant monographs of USP when tested according to these compendia.

## INGREDIENTS

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Pure D-alpha-Tocopheryl Polyethylene Glycol 1000 Succinate

## LABELING

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In the United States and the European Union: Tocobest™ Vitamin E  
TPGS-N

## USES RECOMMENDATIONS

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For fortification of food and drink, especially for the food with transparent appearance, also suitable for manufacturing soft-shell capsules.

## HANDING RECOMMENDATIONS

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Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents. Keep container tightly closed. Keep container in a cool, well-ventilated area.

## PACKING & SHELF LIFE

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<b>Package</b>	25kg/drum, or 1kg/tin
<b>Shelf life</b>	2 years if sealed and stored properly.
<b>Storage</b>	It should be protected from light, heat, oxygen and moisture. Keep the container tightly closed. Once opened, use contents quickly