



# (±)-α-Tocopherol (Vitamin E) Standard solution (DWT115)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Product Overview	1.0 mg/mL analytical α-Tocopherol Standard
Conjugate	N/A
Cas.No	10191-41-0
Molecular Weight	430.71g/mol
Format	Liquid
Concentration	1.0 mg/mL
Size	1 ml
Buffer	Methanol
Storage	Store unopened in freezer(-10 °C to 25 °C)

## BACKGROUND

Introduction	Alpha-Tocopherol is the orally bioavailable alpha form of the naturally-occurring fat-soluble vitamin E, with potent antioxidant and cytoprotective activities. Upon administration, alpha-tocopherol neutralizes free radicals, thereby protecting tissues and organs from oxidative damage. Alpha-tocopherol gets incorporated into biological membranes, prevents protein oxidation and inhibits lipid peroxidation, thereby maintaining cell membrane integrity and protecting the cell against damage. In addition, alpha-tocopherol inhibits the activity of protein kinase C (PKC) and PKC-mediated pathways. Alpha-tocopherol also modulates the expression of various genes, plays a key role in neurological function, inhibits platelet aggregation and enhances vasodilation. Compared with other forms of tocopherol, alpha-tocopherol is the most
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biologically active form and is the form that is preferentially absorbed and retained in the body.

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**Keywords**

alpha-Tocopherol; VITAMIN E; D-alpha-Tocopherol; 5,7,8-Trimethyltolcol

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