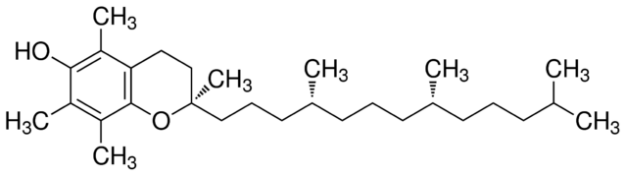
AM-327

Quantitative analysis of alpha-tocopherol in plasma/serum using LC-FLD

Vitamin E refers to a group of ten lipid-soluble compounds that include both tocopherol and tocotrienols. Vitamin E has many biological functions, the antioxidant function being the most important and best known. α-tocopherol is the most biologically active form of vitamin E and the form that is preferentially absorbed and accumulated in humans.

Normal plasma concentration in humans for vitamin E measured as α-tocopherol is about 8-28 µM. Vitamin E deficiency causes nerve problems due to poor conduction of electrical impulses along nerves due to changes in nerve membrane structure and function

Quantification of α-tocopherol from plasma/serum is performed by protein precipitation and fluorescense detection (LC-FLD).

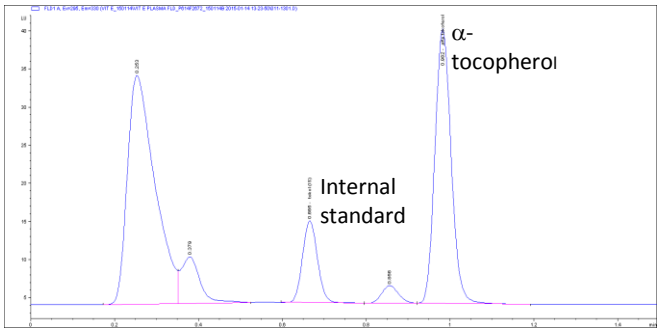


α-tocopherol

Method details:

• Technique:	LC-FLD
• Sample Matrix:	Plasma/serum
• Anti-coagulant:	Any
• Spcecies:	Human/animal
• Sample amount:	50 µl
• Range:	0.6 - 40 µg/ml
• Detection Limit:	0.2 µg/ml
• Quantification limit:	0.6 µg/ml
• Intra-day precision:	1.5 %
• Shipping temp:	Dry ice

Chromatogram of α-tocopherol in plasma



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