

Application Note

Data Courtesy of : Pawel Gornas
 Institute of Horticulture, Grudu 1, Dobele, Latvia/
 Project no. Izp-2021/1-0651

Tocopherols & Tocotrienol homologues

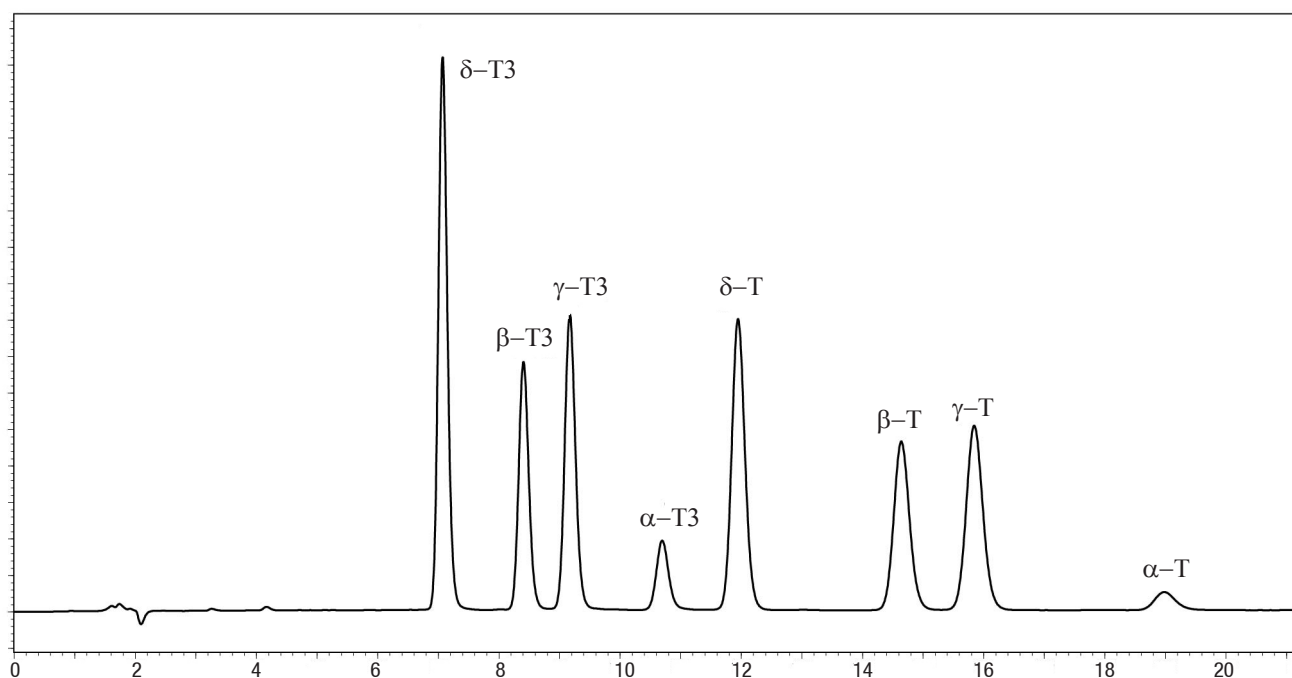


Figure 1. Separation of Tocotrienol (T3) and Tocopherol (T)

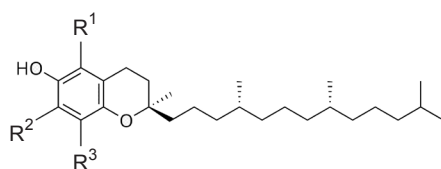


Figure 2. Structure of Tocopherol (T)

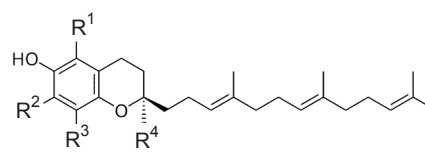


Figure 3. Structure of Tocotrienol (T3)

Compound	Name	R ₁	R ₂	R ₃	R ₄
5,7,8-trimethyltolcol	α-tocopherol	CH ₃	CH ₃	CH ₃	CH ₃
5,8-dimethyltolcol	β-tocopherol	CH ₃	H	CH ₃	CH ₃
7,8-dimethyltolcol	γ-tocopherol	H	CH ₃	CH ₃	CH ₃
8-methyltolcol	δ-tocopherol	H	H	CH ₃	CH ₃

Compound	Name	R ₁	R ₂	R ₃	R ₄
5,7,8-trimethyltocotrienol	α-tocotrienol	CH ₃	CH ₃	CH ₃	CH ₃
5,8-dimethyltocotrienol	β-tocotrienol	CH ₃	H	CH ₃	CH ₃
7,8-dimethyltocotrienol	γ-tocotrienol	H	CH ₃	CH ₃	CH ₃
8-methyltocotrienol	δ-tocotrienol	H	H	CH ₃	CH ₃

Experimental Conditions

Column: 3µm Evosphere PFP 150x4.6mm
 p/n EVOPFP-050703

Mobile phase

A: 89:11 MeOH:Water

Flow Rate: 1.0ml/min

Temp: 30°C

Detection: Ex.290nm Em. 330nm

www.fortis-technologies.com Tel: +44 151 336 2266

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45 Coalbrookdale Road
Clayhill Industrial Park
Neston
Cheshire, UK
CH64 3UG

t: +44 151 336 2266
f: +44 151 336 2669
www.fortis-technologies.com
e: info@fortis-technologies.com

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via neera 8/a 20141 Milano
Tel. +39 02.8954201 - Fax +39 02.89542022

www.cps.it - cps@cps.it