

Application Note

Data Courtesy of : Pawel Gornas
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 Project no. Izp-2021/1-0651

Tocopherols & Tocotrienol homologues

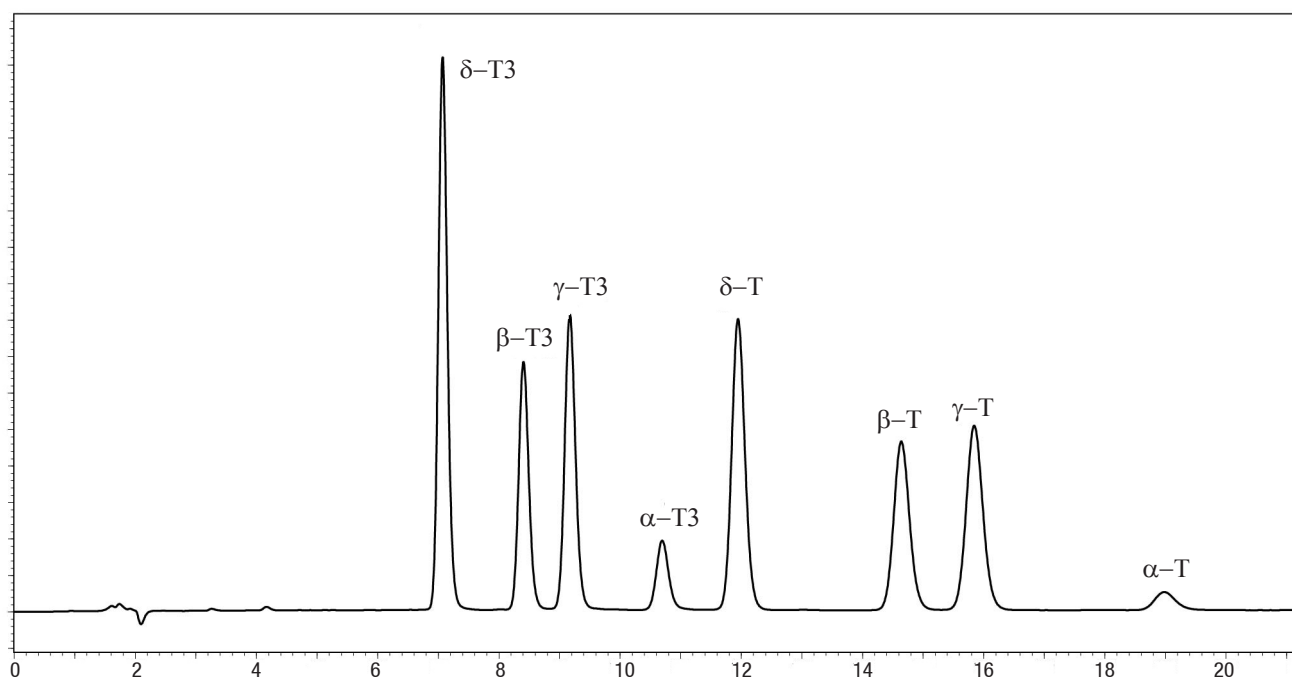


Figure 1. Separation of Tocotrienol (T3) and Tocopherol (T)

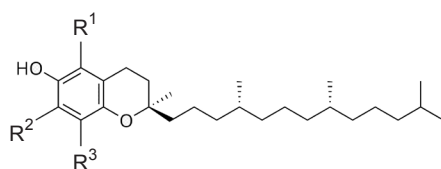


Figure 2. Structure of Tocopherol (T)

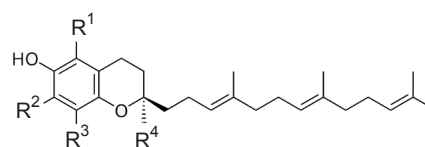


Figure 3. Structure of Tocotrienol (T3)

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



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