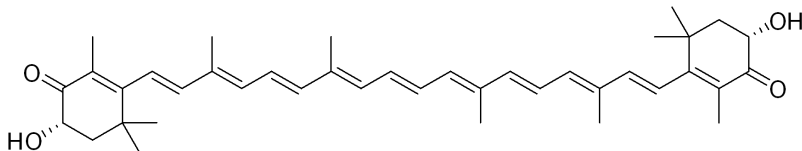


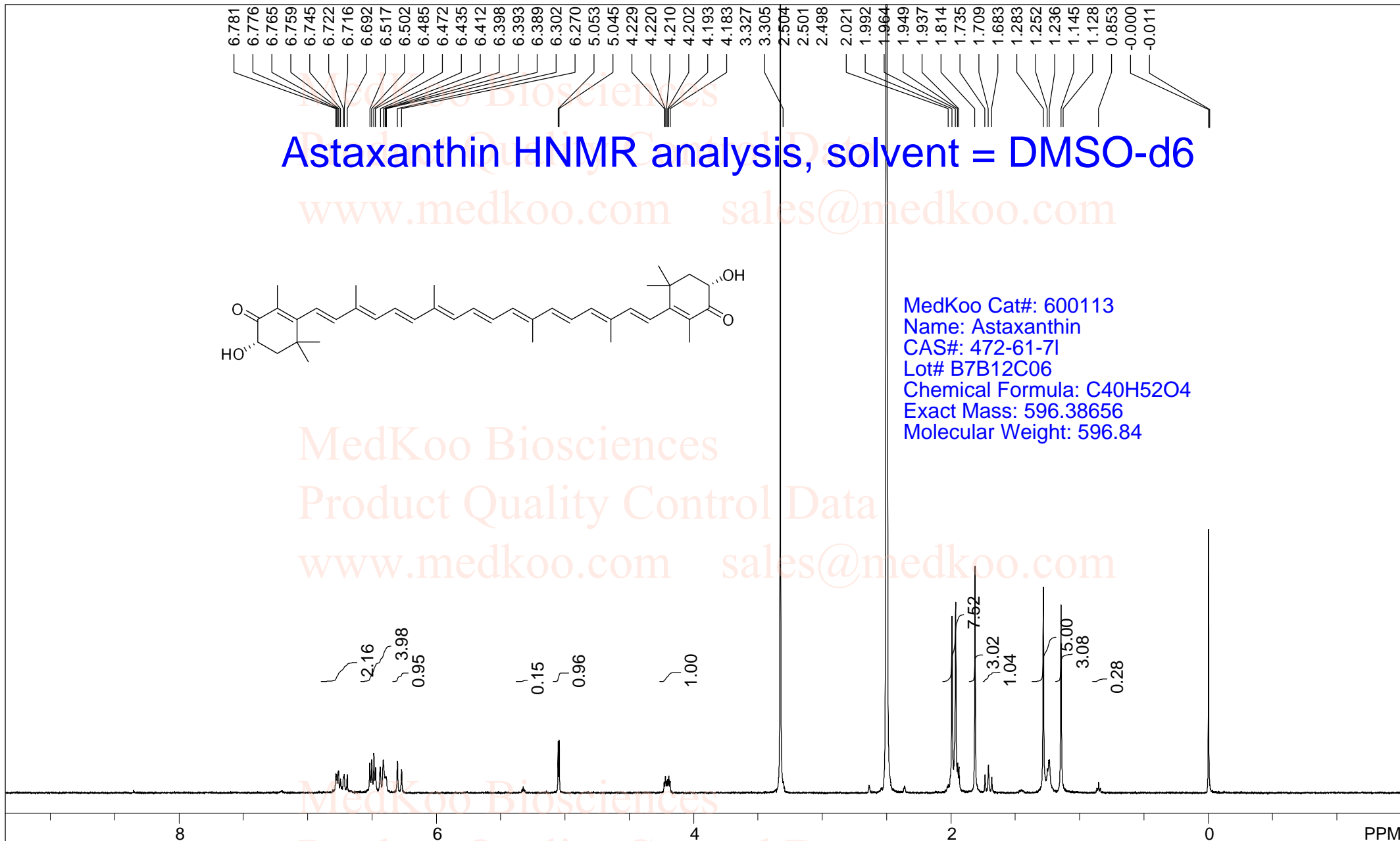
Astaxanthin HNMR analysis, solvent = DMSO-d6

www.medkoo.com sales@medkoo.com



MedKoo Cat#: 600113
 Name: Astaxanthin
 CAS#: 472-61-71
 Lot# B7B12C06
 Chemical Formula: C40H52O4
 Exact Mass: 596.38656
 Molecular Weight: 596.84

MedKoo Biosciences
 Product Quality Control Data
 www.medkoo.com sales@medkoo.com

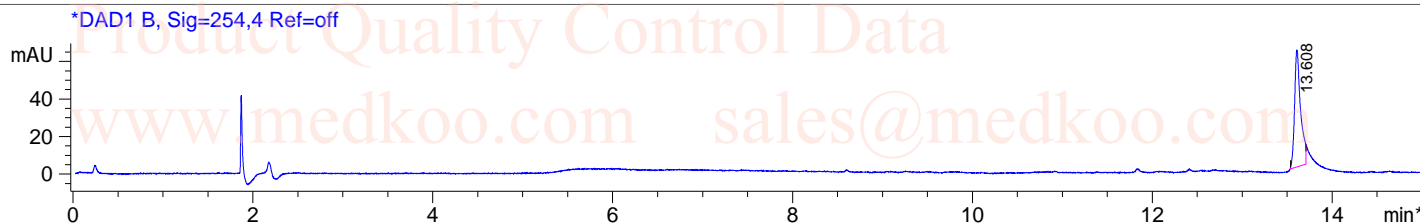


XQS, DMSO,						
F1: 500.133	F2: 1.000	SW1: 10331	PD: 1.0 sec	OF1: 3085.2	PTS1d: 32768	Nuts - \$pdata
EX: zg30		PW: 13.7 usec	NA: 8	LB: 0.0		

Astaxanthin HPLC analysis

Sample Name : XQS
Method Info : Mobile Phase: A: water(10mM Ammonium hydrogen carbonate), B: ACN
 Gradient: 0min 5%B,2min 5%B,10min 95%B,15min 95% B
 Flow Rate: 1.0ml/min
 Column: XBridge C18,4.6*150mm,3.5um
 Oven Temperature: 35 C
 MASS Range:110-800

MedKoo Biosciences

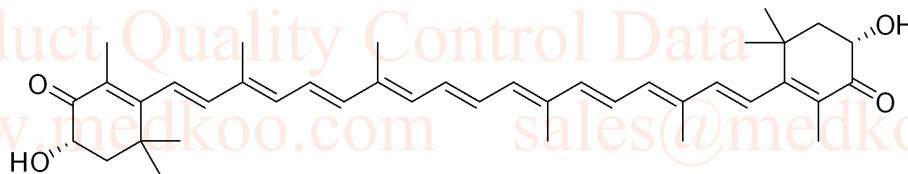


Integration Results for DAD1 B, Sig=254,4 Ref=off

RetTim	Width	Area	Height	Area%
13.61	0.07	289.06	62.15	100.00

MedKoo Biosciences

Product Quality Control Data



MedKoo Cat#: 600113
 Name: Astaxanthin
 CAS#: 472-61-71
 Lot# B7B12C06
 Chemical Formula: C40H52O4
 Exact Mass: 596.38656
 Molecular Weight: 596.84

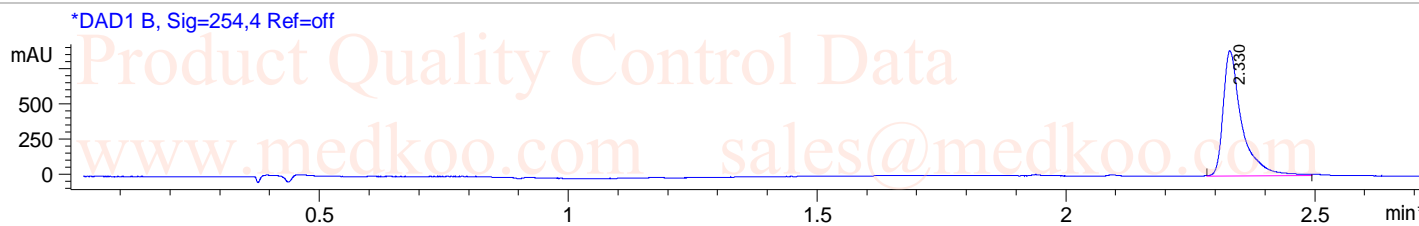
MedKoo Biosciences

Product Quality Control Data

www.medkoo.com sales@medkoo.com

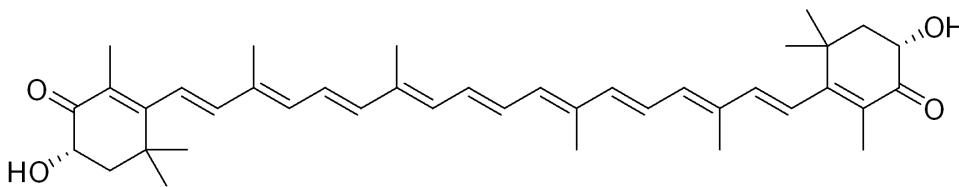
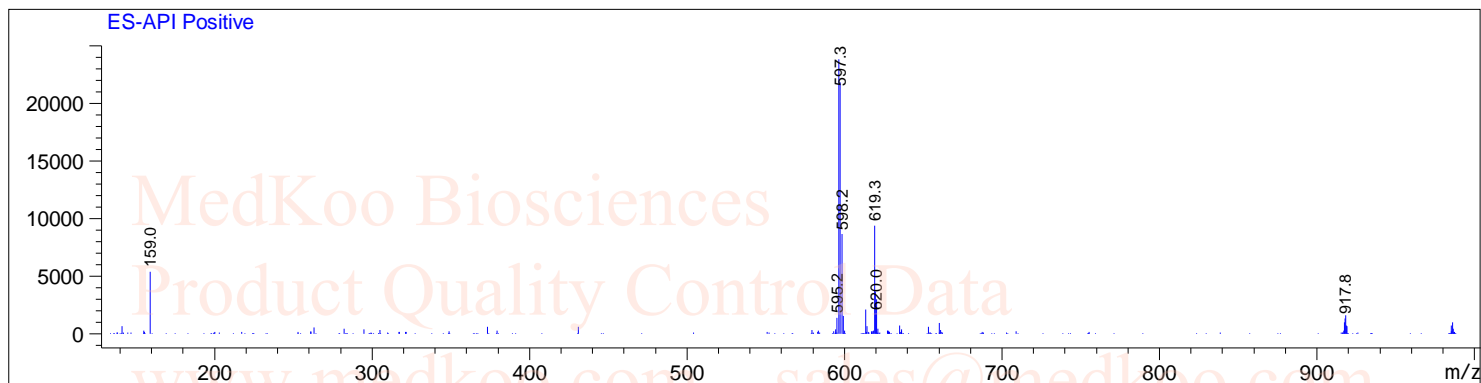
Astaxanthin LC/MS analysis

Sample Name : XQS
Method Info : Mobile Phase: A: water(0.01%TFA), B: ACN(0.01%TFA)
Gradient: 5%-95% B in 1.2min
Flow Rate: 2ml/min
Column: SunFire C18,4.6*50mm,3.5um
Oven Temperature: 50 C
Mass Range: 133-1000



Ret. Time: 2.33

<<<< POSITIVE SPECTRA >>>>



MedKoo Cat#: 600113
Name: Astaxanthin
CAS#: 472-61-7I
Lot# B7B12C06
Chemical Formula: C₄₀H₅₂O₄
Exact Mass: 596.38656
Molecular Weight: 596.84