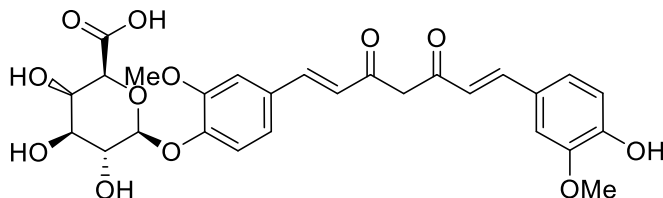


Certificate of Analysis

Description of the Material:

- (a) Chemical Name: Curcumin- β -D-Glucuronide
- (b) Formula Weight: $C_{27}H_{28}O_{12}$, 544.50 g/mole
- (c) Chemical Structure:



Chemical Formula: $C_{27}H_{28}O_{12}$
Exact Mass: 544.16
Molecular Weight: 544.51

- (d) CAS Registry Number: 227466-72-0
- (e) Appearance: Orange Solid
- (f) Amount: 100 ug (pre-weighed)
- (g) Solubility: soluble in MeOH

Material Code and Batch Number:

- (a) Lot Number: 0290881

Purity Specifications and Results:

- (a) HPLC analysis: $\geq 94\%$
- (b) MS data: 542.7 $[M-1]^{-1}$

Intended use: For research and development use only.

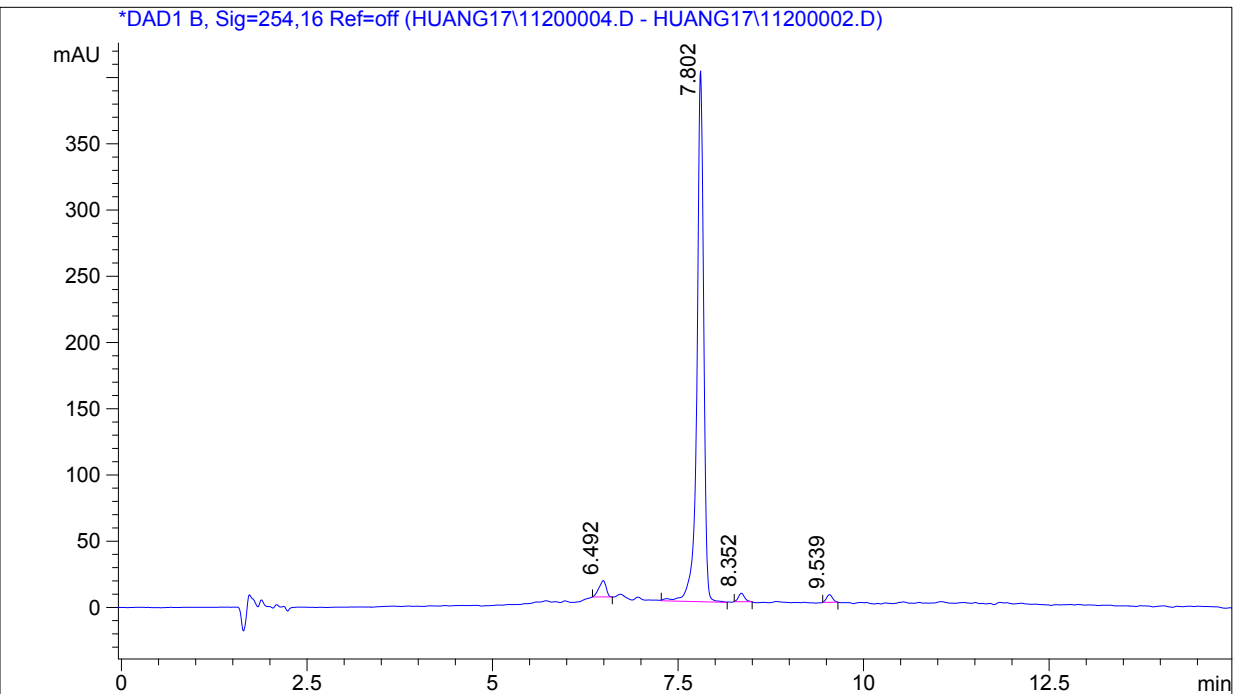
Hazard information: Hazard information of this compound is unknown and should be handled with proper care.

Shelf life, Storage condition and Expiration date: The compound is relatively stable at RT. Recommended to store the product below $-20^{\circ}C$ under sealed and moisture free conditions.

Date of analysis: Nov. 20, 2017
Retest Date: Nov. 20, 2020

Data File name: C:\HPCHEM\1\DATA\HUANG17\11200004.D
 Method name: TFALSC6E.M
 Injection Time: 2:28:16 PM
 Injection Date: 11/20/2017

CellMosaic, Inc. Injection Volume: 20.000
 Instrument 1 Sequence Name:
 Data Acquired By: CellMosaic QA Pressure (bar) : 127.350
 Location: Vial 21 Flow (mL/min) : 1.000
 Sample Name: cm0290881 Temp (C) : 24.990



#	Meas.RT	Main Peak Area	Main Peak Area %	Main Peak Height
1	6.492	83.163	3.103	12.403
2	7.802	2525.188	94.236	401.878
3	8.352	37.947	1.416	6.557
4	9.539	33.346	1.244	5.912

Total