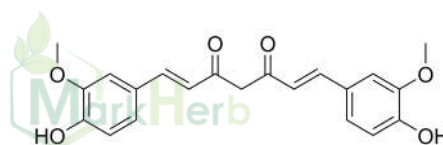


CERTIFICATE OF ANALYSIS

For Laboratory Use Only

Product name Curcumin
Other names (E,E)-1,7-bis(4-Hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione; Diferuloylmethane; Diferulylmethane; Natural yellow 3; Kurkumin (INA)
CAS 458-37-7
Catalog No. PHE-3-50
Formula C₂₁H₂₀O₆
Molecular mass 368,38 g/mol
Date of sample 17.09.2020
Date of report 24.09.2020



Structure

ANALYTICAL RESULTS

Test	Method	Specification	Result
Appearance	NA	Yellow to orange, crystal	Orange, crystal
Purity	HPLC-UV	> 90%	98.32%
UV spectrum	UV Spectroscopy	NA	NA
Mass spectrum	LC-MS/MS	NA	NA
NMR	¹ H-NMR, ¹³ C-NMR	NA	NA

NA, not available

STORAGE CONDITIONS

Storage Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Recommended storage temperature -20 °C

Transport Room temperature

Digitally signed by
 Dr. rer.nat. Agus Chahyadi
 Date: 25.09.2020
 Bandung - Indonesia