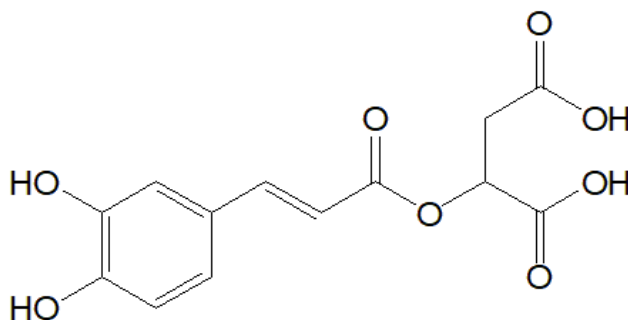


Certificate of Analysis



PRODUCT	<i>Caffeoylmalic Acid</i>
BATCH #	PA-040-088-100
ASSAY METHOD	HPLC
REPORT DATE	2019-12-30
CHEMICAL NAME	2-[(E)-3-(3,4-dihydroxyphenyl)prop-2-enoyl]oxybutanedioic acid
OTHER NAMES	n/a
CHEMICAL FORMULA	C ₁₃ H ₁₂ O ₅
MOLECULAR WEIGHT	296.23
CAS REG. #	39015-77-5
STORAGE	Choose an item.
EXPIRATION DATE	2021-12-30
NOTES	Add additional notes.

Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC	215 nm	NA	99.1%
1H-NMR		Conforms	Conforms
Appearance	Off-white powder		

Signed: Jan Glinski, Ph.D.
 Planta Analytica LLC
 December 30, 2019

