



ChromaDex Analytics

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ChromaDex Analytics Analytical Test Report

Mangosteen Xanthenes in Adam's 100% Mangosteen

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10.3 Results for Adam's 100% Mangosteen Juice, Lot# 0941-I6, CDXA-07-1682

Compound	%	mg per serving
3-Isomangostin	0.013	3.998
8-Desoxygartanin	0.017	5.130
Gartanin	0.008	2.593
α -Mangostin	0.138	42.707
9-Hydroxycalabaxanthone	0.014	4.170
β -Mangostin	0.003	0.956

10.7 Results for Xango, Lot# V070231 15:40, CDXA-07-1684

Compound	%	mg per serving
3-Isomangostin	0.0004	0.122
8-Desoxygartanin	0.0040	1.224
Gartanin	0.0016	0.482
α -Mangostin	0.0179	5.516
9-Hydroxycalabaxanthone	0.0003	0.088
β -Mangostin	0.0003	0.093

10.9 Results for Mango-Xan, Lot# 07 Jun 2008 T02, CDXA-07-1685

Compound	%	mg per serving
3-Isomangostin	0.0034	1.058
8-Desoxygartanin	0.0041	1.260
Gartanin	0.0026	0.818
α -Mangostin	0.0412	12.729
9-Hydroxycalabaxanthone	0.0012	0.381
β -Mangostin	0.0008	0.253

10.13 Results for Mangosteen 100, Lot# 112801, CDXA-07-1687

Compound	%	mg per serving
3-Isomangostin	0.0022	0.669
8-Desoxygartanin	0.0094	2.891
Gartanin	0.0035	1.074
α -Mangostin	0.0730	22.545
9-Hydroxycalabaxanthone	0.0080	2.480
β -Mangostin	0.0014	0.425

9. ANALYTICAL METHOD

9.1. HPLC Method

Instrument: Agilent 1100 HPLC with a DAD
Column: NovaPak C-18, 150 x 3.9 mm, 10 μ m particle size (part #WAT086344)
Flow Rate: 1.0 mL/minute
Mobile Phase A: 0.1% Formic acid (88% (w/v)) in Milli-Q water
Mobile Phase B: Methanol
Gradient Program: 65%B to 90%B in 30 minutes, hold at 90%B for 5 minutes, then decrease to 65%B in 5 minutes. Re-equilibrate at 65%B for 5 minutes.
Column Temperature: 25 $^{\circ}$ C
Injection Volume: 10 μ L
UV Detection: 254 \pm 4 nm with ref. at 400 \pm 50 nm

9.2. Standard Chromatogram

