

## Laboratory Test Report

**SAMPLE NAME** : Organic Cinnamon Cassia  
**CLIENT NAME** : Plant Therapy  
**CLIENT LOT #** : CX0110R  
**APRC LOT#** : PT240212A

**Column** : ZB5 (60 m length × 0.25 mm inner diameter × 0.25 µm film thicknes  
**Instrument** : Shimadzu GCMS-QP2010 Ultra  
**Carrier gas** : Helium 80 psi  
**Temperature ramp** : 2 degrees Celsius per minute up to 260-degree Celsius  
**Split ratio** : 30:1  
**Sample preparation** : 5% w/v solution with Dichloromethane

### Interpretation on this sample

The analysis of this Cassia batch sample meets the expected chemical profile of pure essential oil of Cinnamomum cassia.

**Analyzed by** : Dr Prabodh Satyal  
**Reviewed by** : Ambika Poudel

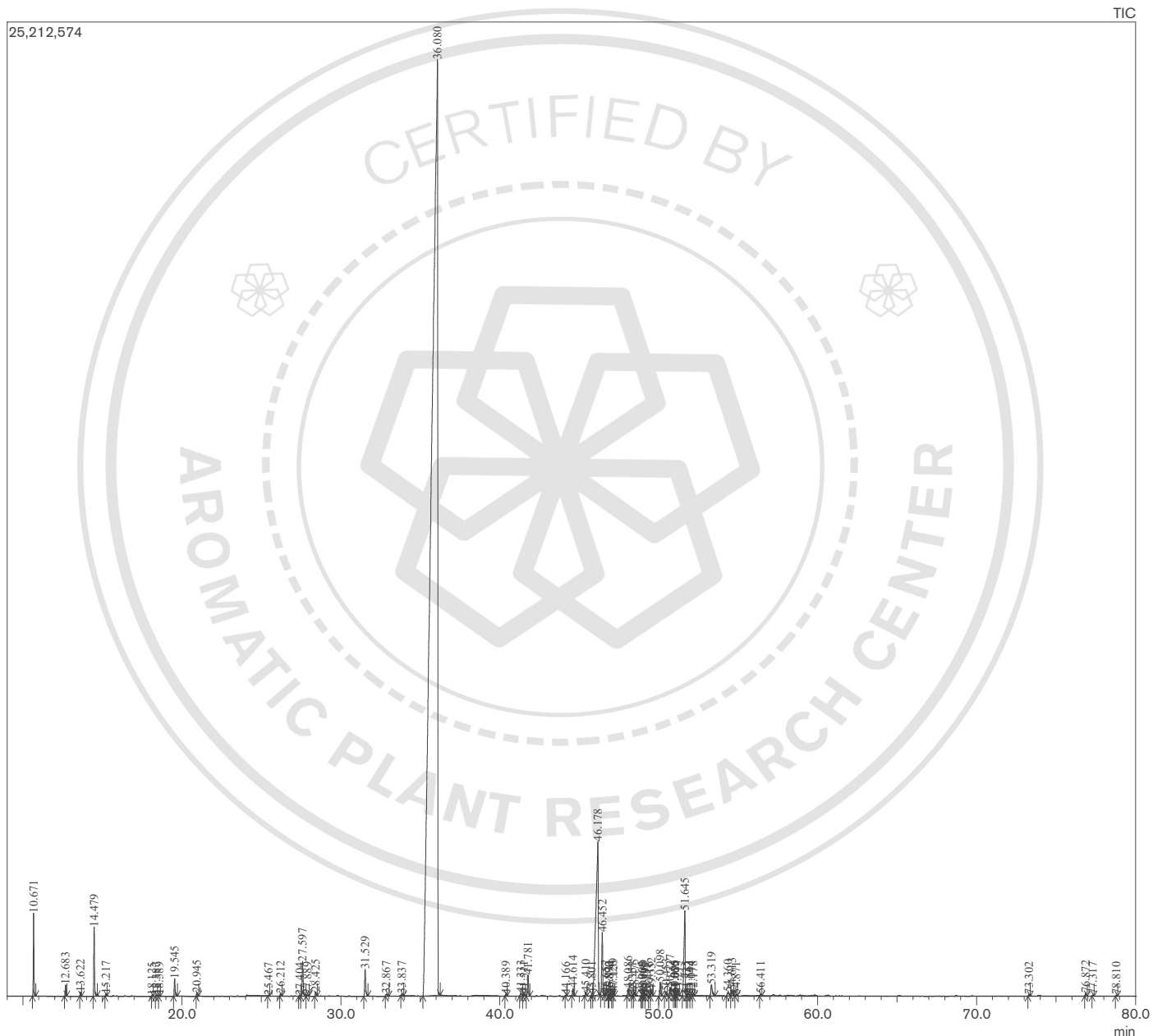
**Issued Date** : 2/13/2024

## GCMS Analysis

### Sample Information

Analyzed by : Dr. Prabodh Satyal  
Analyzed : 2/13/2024 1:32:15 PM  
Sample Type : Essential Oil  
Sample Name : Organic Cinnamon Cassia  
Client Name : Plant Therapy  
Client Lot# : CX0110R  
APRC Lot# : PT240212A  
Injection Volume : 0.30

### Chromatogram



## Peak Report

Peak#	R.Time	Name	Area%
1	10.671	Styrene	0.76
2	12.683	alpha-Pinene	0.11
3	13.622	Camphene	0.04
4	14.479	Benzaldehyde	0.77
5	15.217	beta-Pinene	0.02
6	18.125	para-Cymene	0.01
7	18.387	Limonene	0.02
8	18.589	1,8-Cineole	0.01
9	19.545	Salicylaldehyde	0.22
10	20.945	Acetophenone	0.05
11	25.467	ortho-Vinyl anisole	0.01
12	26.212	3-Methyl benzofuran	0.03
13	27.404	2-Hydroxy acetophenone	0.01
14	27.597	Benzenepropanal	0.50
15	27.889	Pyruvophenone	0.02
16	28.425	2-Methyl benzofuran	0.05
17	31.529	cis-Cinnamaldehyde	0.40
18	32.867	ortho-Anisaldehyde	0.04
19	33.837	2-Phenyl ethyl acetate	0.03
20	36.080	trans-Cinnamaldehyde	86.89
21	40.389	Eugenol	0.03
22	41.333	alpha-Ylangene	0.06
23	41.511	alpha-Hydroxy cinnamic acid	0.04
24	41.781	alpha-Copaene	0.31
25	44.166	cis-alpha-Bergamotene	0.01
26	44.614	beta-Caryophyllene	0.10
27	45.410	trans-alpha-Bergamotene	0.06
28	45.801	Aromadendrene	0.03
29	46.178	Coumarin	5.30
30	46.452	trans-Cinnamyl acetate	0.92
31	46.652	trans-beta-Farnesene	0.02
32	46.870	meta-Methoxy cinnamaldehyde	0.01
33	46.892	alpha-Humulene	0.02
34	47.120	beta-Santalene	0.02
35	47.159	allo-Aromadendrene	0.06
36	48.086	trans-Cadina-1(6),4-diene	0.10
37	48.351	alpha-Amorphene	0.02
38	48.475	ar-Curcumene	0.06
39	48.960	10,11-Epoxy calamenene	0.01
40	49.005	beta-Selinene	0.01
41	49.069	Viridiflorene	0.05
42	49.195	trans-Muurola-4(14),5-diene	0.01
43	49.416	alpha-Selinene	0.01
44	49.552	alpha-Muurolene	0.08
45	50.098	beta-Bisabolene	0.20
46	50.453	gamma-Cadinene	0.07
47	50.727	delta-Cadinene	0.12
48	50.995	trans-Calamenene	0.03
49	51.025	Myristicin	0.01
50	51.060	beta-Sesquiphellandrene	0.01
51	51.213	trans-gamma-Bisabolene	0.03
52	51.645	trans-ortho-Methoxy cinnamaldehyde	1.56
53	51.735	gamma-Calcorene	0.02
54	51.863	alpha-Cadinene	0.04
55	52.044	trans-alpha-Bisabolene	0.03
56	52.178	alpha-Calacorene	0.02
57	53.319	trans-Nerolidol	0.23
58	54.360	Spathulenol	0.08
59	54.613	Caryophyllene oxide	0.08
60	54.871	Globulol	0.02
61	56.411	Tetradecanal	0.02
62	73.302	Ent-rosa-5,15-diene	0.02
63	76.872	13-epi-Dolabradiene	0.04
64	77.317	13-epi-Manool oxide	0.01
65	78.810	beta-Kaurene	0.01
			100.00