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Analysis Report

SUMMARY

Company: Prince of Peace Enterprises, Inc.

Sample: Li Chung Shing Tong Po Chai Pills

Compounds screened for: Phenolphthalein and Sibutramine, and other laxatives and anorectics detailed below.

Findings: Po Chai pills **DO NOT** contain phenolphthalein or sibutramine and is free of other laxatives and anorectics listed below.

METHODS AND RESULTS

A fraction of the sample (4.5 mg) was extracted with methanol by sonication for 30 min. The mixture was spun at 1500rpm for 10 min. The supernate was collected and filtered through a 0.2 micron spin filter. Two and a half microliters of the sample was then run in Agilent LC 1200/ MS-TOF 6230 using the following parameters-

LC

Column: Agilent Eclipse Plus C18 (1.8 μ m ; 2.1 x 100mm)

Column temperature: 55°C

Mobile phase: A (0.05% HCOOH, 5mM NH₄HCOO in H₂O)

B (0.05% HCOOH in CH₃OH)

Elution: Gradient (5%B to 95%B from 0.5min to 5min)

Flow Rate: 0.5mL/min

Running time: 7.5 min

MS

Ion Source: ESI

VCap: 3500V

Ion Polarity: Positive

Nozzle Voltage: 2000V

Gas Temp: 350°C

Fragmentor Voltage: 125V

Gas Flow: 7L/min

Nebulizer: 40psi

Sheath Gas Temp: 400°C

Sheath Gas Flow: 10L/min

Mass Range: 105-1000 amu

Scan Rate: 2 scans/s

The total ion chromatogram (TIC) obtained from the run was analyzed using Agilent's MassHunter Qualitative Analysis Software through the "Find by Formula" algorithm.

The TIC was searched for formula matches for phenolphthalein and sibutramine, and other laxatives and anorectic agents.

Using the Find by Formula algorithm, no formula matches for phenolphthalein or sibutramine were found in the methanol extract of the sample. The sample was also found free of the following laxatives and anorectic agents-

Laxatives

Rhein, $C_{15}H_8O_6$

Phycion, $C_{16}H_{12}O_5$

Tegaserod $C_{16}H_{23}N_5O$

Anorectic/ Appetite-suppressing agents

Phentermine, $C_{10}H_{15}N$

Phenmetrazine, $C_{11}H_{15}NO$

Phendimetrazine, $C_{12}H_{17}NO$

Diethylpropion, $C_{13}H_{19}NO$

Rimonobant, $C_{22}H_{21}Cl_3N_4O$

Benfluorex, $C_{19}H_{20}F_3NO_2$

Cathine, $C_9H_{13}NO$

Phenylpropanolamine, $C_9H_{13}NO$

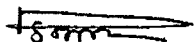
Amphetamine, $C_9H_{13}N$

Benzphetamine, $C_{17}H_{21}N$

Methylphenidate, $C_{14}H_{19}NO_2$

Dexmethylphenidate, $C_{14}H_{19}NO_2$

Methamphetamine, $C_{10}H_{15}N$



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