University of California
San Francisco
UCSF
Department of Laboratory Medicine
School of Medicine

San Francisco General Hospital
Clinical Laboratory-NH 2M2
1001 Potrero Avenue
San Francisco, CA 94110
tel: 415/206-8588
fax: 415/206-3045

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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 (1.8μm ; 2.1 x 100mm)
Column temperature: 55°C
Mobile phase: A (0.05% HCOOH. 5mM NH_4HCOO in H_2O)
B (0.05% HCOOH in CH_3OH)
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
Ion Polarity: Positive
Gas Temp: 350°C
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

VCap: 3500V
Nozzle Voltage: 2000V
Fragmentor Voltage: 125V

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, $C_{15}H_8O_6$
Physcion, $C_{16}H_{12}O_5$
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, $C_{10}H_{15}N$

Roy Gerona, PhD
Analyst / Post Doctoral Fellow
Clinical Chemistry
Department of Laboratory Medicine
University of California, San Francisco