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## Analysis of weight loss compounds adulterated in health supplements by LC-MS/MS

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In this study, an LC-MS/MS with scheduled MRM and EPI method was developed for simultaneous determination of 40 drug substances with weight loss effect, including bisacodyl, phenolphthalein, sibutramine and its metabolites, etc. These drug substances may be adulterated in health supplements to promote significant weight loss effects. The samples were analyzed using a Q-Trap 5500 LC-MS/MS using a CORTECS UPLC C18 column (100 mmx2.1 mmx1.6  $\mu$ m). Scheduled MRM was used as survey scan; MS2 spectra acquired in the EPI mode were used to perform library searching to increase the confidence of detection. Good limits of detection (LODs) were achieved using this methodology, where majority of the analytes were able to be detected at less than 10 ng/g levels.

### Biography

Jing Quan Lim has completed his BSc from the Nanyang Technological University. He has experience in Pharmaceutical Testing, especially, in the areas of Western Medicines and Complementary Health Products Analysis. He is currently the Team Leader at the Laboratory's Western Medicines team and plays a vital role for investigative samples.

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