

## Analysis of Litchi seed extracts - AppNote

Hypoglycin A and methylenecyclopropylglycine are two compounds found in the extract of Litchi seeds that studies have shown to be toxic. Methylenecyclopropylglycine inhibits the synthesis of fatty acids from glucose, and therefore undernourished children are more at risk since their glucose reserves are low.

This study used LCMS with a Cogent Diamond Hydride<sup>™</sup> column to detect these compounds in Litchi extracts. The results confirmed the presence of these compounds in all the extracts except the overripe fruit. The conclusion that can be gleaned from this work is that selection of a proper harvest time can allow for safe fruits to be sold to the consumer.

## See Downloadable pdf Below for the Full Study with Method Conditions.

$$CH_2$$
  $CH_2$   $COO$   $COO$   $COO$   $COO$   $COO$ 

Hypoglycin A

Methylenecyclopropylglycine

*Note*: There have been epidemics in India, mostly affecting malnourished children. Authorities have identified consumption of Litchi fruit as the cause of the illness.

## **Attachment**

Analysis of Litchi Seed Extracts pdf Download File

Printed from the Chrom Resource Center Copyright 2025, All Rights Apply **MicroSolv Technology Corporation** 9158 Industrial Blvd. NE, Leland, NC 28451 Tel: (732) 380-8900 Fax: (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com