## HALO



## **Carotenoid Analysis in Pumpkin**

250-V



i. unidentified isomers

5. β-Carotene

## **TEST CONDITIONS:**

**Column:** HALO<sup>®</sup> C30, 2.7 μm, 4.6 x 150 mm **Part Number:** 92114-730 **Isocratic:** 100% Methanol **Flow Rate:** 1.5 mL/min **Initial HALO<sup>®</sup> Pressure:** 277 bar **Temperature:** 15 °C **Detection:** 450 nm UV, **Injection Volume:** 20.0 μL Sample Solvent:MethanolData Rate:14 HzResponse Time:0.12 sec.Flow Cell:5 μL semi-microLC System:LC System: Agilent 1100

Pumpkins contain high amounts of carotenoids, especially beta carotene. Carotenoids are fat-soluble compounds that can be split into two main groups called xanthophylls and carotenes. These compounds both contain anti-oxidant properties and some can be converted into vitamin A when released into the body. A liquid-liquid extraction is performed with 0.2g of pumpkin pulp. Carotenoids are extracted from the pumpkin and analyzed on a HALO<sup>®</sup> C30 column. The HPLC oven set at sub-ambient temperature enables optimum resolution of early eluting peaks.

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