

3rd International Conference on

Food & Beverage Packaging

July 16-18, 2018 | Rome, Italy

Determination of five free nucleotides in infant formula by HPLC

Hong Zheng

Shandong Institute for Food and Drug Control, China

A method was developed for the simultaneous determination of five free nucleotides in infant formula by High Performance Liquid Chromatography (HPLC). The samples were extracted with water, and the proteins were precipitated by adjusting isoelectric point. The five free nucleotides were purified using a SAX SPE cartridge, separated on an Atlantis T3 column, and detected with diode-array detector by external standard method. The average recoveries for the target compounds were between 95%-103% with RSDs less than 4.5%. The linearities of five compounds were in the concentration ranges of 0.1-100 µg/ml, with the good correlation coefficients ($r \geq 0.999$). The method is easy, accurate and highly reproducible. The developed method can provide strong technical support for enterprise quality control and government regulation.

Biography

Hong Zheng has completed her Master's degree from Shandong University. She works in Shandong Institute for Food and Drug Control and also engaged in the work of food safety monitoring and risk assessment. She has published more than ten papers in reputed journals.

372620203@qq.com