

Journal of Food Science  
56(1): 158-160

## Simultaneous Analysis of Biogenic Amines in Canned Fish by HPLC

Yen, Gow-Chin; Hsieh, Chiu-Lan

### Abstract

A simple HPLC method was developed for simultaneous determination of putrescine, cadaverine, tryptamine, 2-phenylethylamine, spermidine, spermine, histamine, tyramine, and agmatine. Amines were derivatized with benzoyl chloride and separated well on Lichrosphere 100 RP-18 column using a gradient elution system with a mixture of methanol and water in 10 min. Amine content of canned fish was detected by this method, and except for anchovie products most samples contained the nine amines at low levels. This method would be useful for detection of amines in fish.