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Czech J. Food Sci.

Yu L.Y., Zhang X., Jin J., Che S., Yu L.

Simultaneous determination of chloride, bromide and iodide in foodstuffs by low pressure ion-exchange chromatography with visible light detection

Czech J. Food Sci., 29 (2011): 634-640

An ion-exchange chromatography method with visible light detection was developed for the simultaneous determination of chloride, bromide, and iodide in foodstuffs. They were separated by means of low pressure ion-exchange chromatography using 4.0mM sodium carbonate solution as the eluent and a low pressure ion-exchange chromatography column as the separation column. The detection limits of chloride, bromide and iodide were 0.011 mg/l, 0.002 mg/l, and 0.023 mg/l, respectively. The relative standard

smaller than 2.9%. The recoveries were between 98.61% and 105.65%. Unlike the traditional methods, this validated method is inexpensive and stable.

Keywords:

LPIEC; spectrophotometry; halide

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