

Optimasi penetapan kadar akrilamida yang ditambahkan ke dalam kripik kentang simulasi secara kromatografi cair kinerja tinggi

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=90149&lokasi=lokal>

Abstrak

A method by high performance liquid chromatography for the analysis of acrylamide in potato chips, is reported. The retention time for the elution of acrylamide from the C18 column ranged from 3 to 3.2 minutes and the eluate was analyzed by UV-VIS detector. A linear response was found for the acrylamide standard tested within the concentration range of 0.8-10 g/ml and the correlation coefficient (r^2) greater than 0.999 with detection limit 0.06 ppm and quantitative limit 0.19 ppm. Sample preparation was performed by means of solvent extraction using dichloromethane and subsequent re-extraction of the organic solvent with water. This aqueous sample solution was found to be free of any interferences and gave acrylamide and recoveries higher than 90%.