

Fast, flavoring material purification from biological sample

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INTRODUCTION

10% content extract purification to 90% content

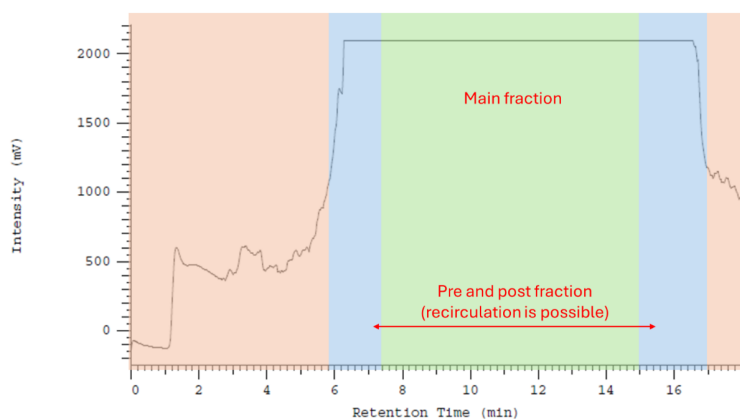
METHOD DESCRIPTION

Equipment	CPC system miniLiLi 5.0
Mode	Ascending mode: 10:40:50 water:AcN:hexane
Pressure	11 bar
Flow rate	4 ml/min
Rotor speed	1000 rpm
Sample	250g sample diluted by 150ul hexane and injected (target material content about 30mg).

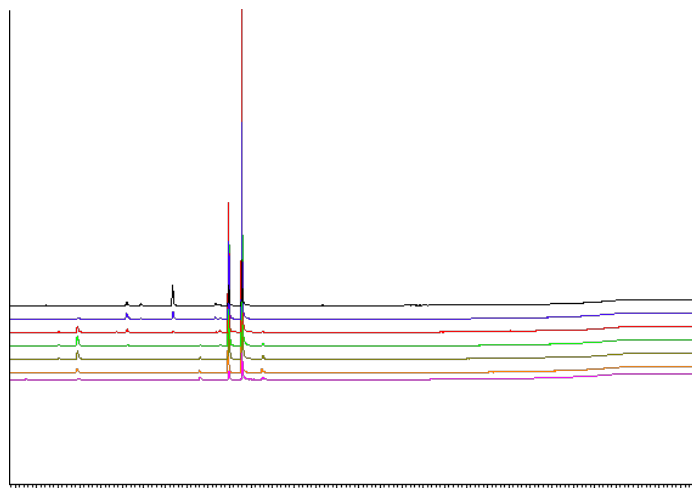
Pre-fraction and post-fraction were taken for 1,5 minutes (6 ml volume each) in brown vials. The main fraction was taken for 6 minutes (24 ml volume each) in brown vials. Samples were kept in the refrigerator and were not deoxygenated.

RESULTS AND DISCUSSION

The yields of the combined fractions was up to 85%, the purity was up to 90% by GC



The collected fraction GC chromatograms:



CONCLUSION

A fast and cheap method developed by the target flavor material purification.