<u>Cite this as</u>: Guo-hua ZHANG, Tao WU, Faizan A. SADIQ, Huan-yi YANG, Tong-jie LIU, Hui RUAN, Guo-qing HE, 2016. A study revealing the key aroma compounds of steamed bread made by Chinese traditional sourdough. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, **17**(10):787-797.

http://dx.doi.org/10.1631/jzus.B1600130

A study revealing the key aroma compounds of steamed bread made by Chinese traditional sourdough

Key words: Steamed bread, Sourdough, Simultaneous distillation–extraction (SDE), Solid-phase microextraction (SPME),

Purge and trap (P&T)

Research Summary

This article mainly reported the volatile aromatic compounds of CSB made by Chinese traditional sourdough, using three different extraction methods:

- Simultaneous distillation–extraction (SDE)
- Solid-phase microextraction (SPME)
- Purge and trap (P&T)







Innovation points

- 19 volatile compounds were identified by SDE-GC-O-MS, 12 aldehydes.
- 20 volatile compounds were identified by SPME-GC-O-MS, 7 aldehydes and 7 alcohols.
- 12 volatile compounds were identified by P&T-GC/MS and GC-O methods. 5 alcohols and 3 aldehydes.

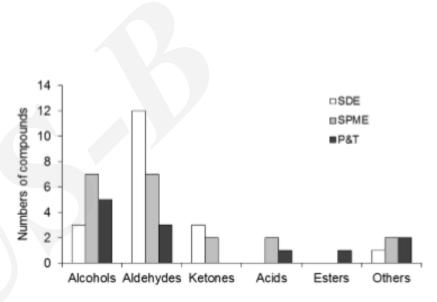


Fig. 2 Comparison of the compounds identified by the SDE, SPME, and P&T