

MS imaging of a frozen fried chicken using blotting method

The blotting method using DIUTHAME is a pretreatment method that enables MS imaging measurement without thin-sectioning the sample. In this paper, the blotting method was applied to analyze the change over time of a frozen fried chicken. The frozen section was regarded as representing the conditions immediately after cooking, and the component distributions in the frozen fried chicken immediately after cooking and after defrosting were compared.



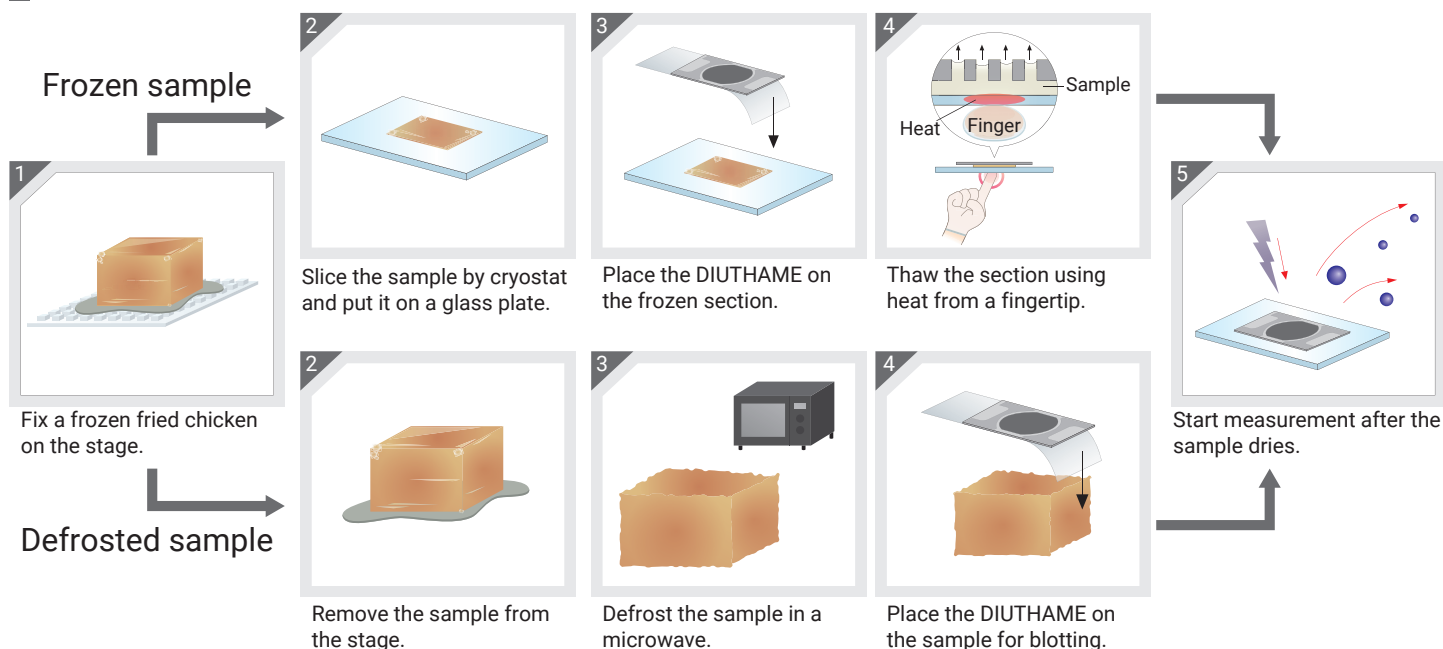
▲ A13331-18-2B (For blotting)

Measurement conditions

Measurement mode: Laser pitch 80 μm, positive ion, reflectron mode

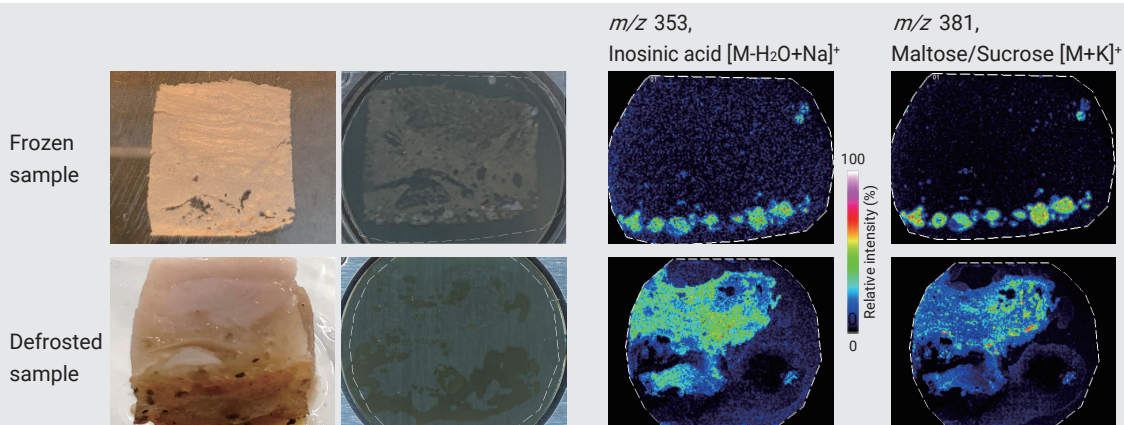
Sample: Frozen fried chicken

Method



Results

These results show that many components were transferred from the fried outer part to the inner meat by defrosting the frozen fried chicken. These results suggest that the change over time of a sample could be measured by the blotting method using DIUTHAME.



Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office. Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subject to change without notice. No patent rights are granted to any of the circuits described herein. ©2020 Hamamatsu Photonics K.K.