

# MS imaging of a fresh strawberry using blotting method

Samples with high moisture content, such as strawberries, are difficult to slice into thin sections, especially when the sample is large. To perform MS imaging on these kinds of samples, Hamamatsu developed a large-sized DIUTHAME (60 mm X 40 mm effective area). This paper shows the MS imaging results of a large strawberry using the DIUTHAME blotting method, which does not require thin sectioning.

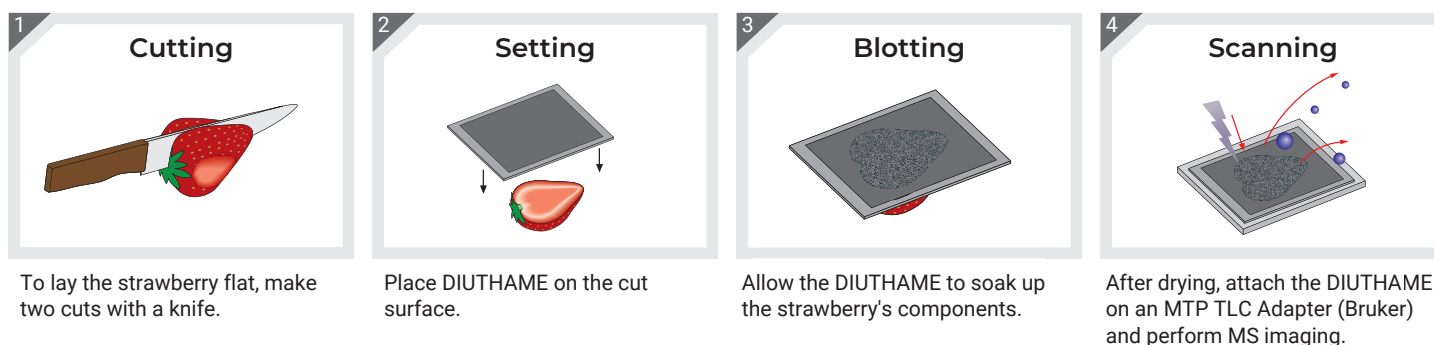
## Measurement conditions

Measurement mode: Laser pitch 300  $\mu\text{m}$

Positive ion, reflectron mode

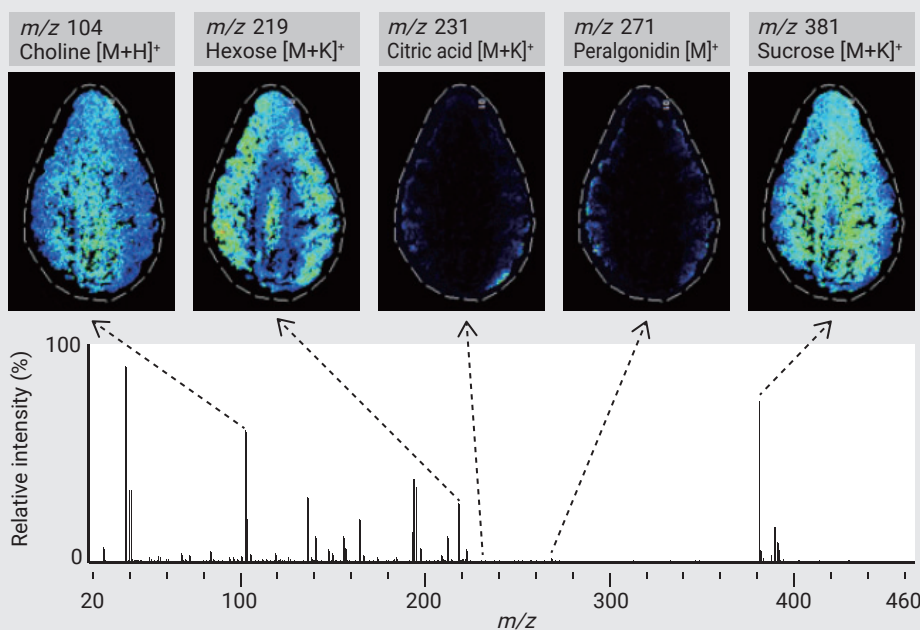
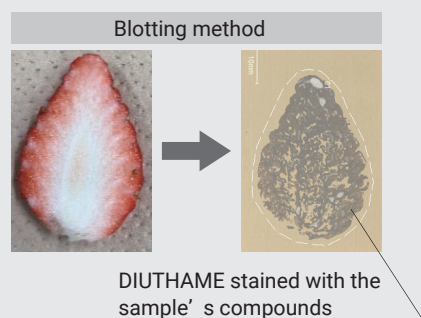
Sample: Fresh strawberry ("Skyberry" from Tochigi Prefecture), 2L size (35 mm X 40 mm)

## Method



## Results

Using the blotting method, the MS imaging results of a strawberry's cross-section are shown below. This demonstrates that the DIUTHAME blotting method is very easy and effective for MS imaging of samples difficult to slice into thin sections.



Measurements were performed in collaboration with Associate Professor Hirofumi Enomoto, The Department of Biosciences, Teikyo University.

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