MALDI Matrix Sampler Pack Product Information Sheet and General Protocols

Product Category:	UltraPure MALDI Matrices
Catalog Number(s):	p9107-Sampler
Product Name:	MALDI Matrix Sampler Pack
Contents:	CHCA 10mg (1), DHB 10mg (1), Sinapinic Acid (SA) 10mg (1)

Product Name	Part Number	CAS Number	Chemical Formula	Molecular Weight
CHCA Matrix	p9100-10mg	28166-41-8	$C_{10}H_7O_3N$	189.17
DHB Matrix	p9101-10mg	490-79-9	$C_6H_6O_4$	154.12
Sinapinic Acid (SA) Matrix	p9102-10mg	530-59-6	$C_{11}H_{12}O_5$	224.21

General Protocol for MALDI Matrices

MALDI Matrix Preparation (Saturated Method)

1. Dissolve the contents of the tube in 1.0 mL of 50% acetonitrile, 50% proteomics grade water and 0.1% TFA. Vortex vigorously. Other solvents may be used, such as ones containing higher acetonitrile concentrations, such as 70%; a low concentration of TFA, such as 0.01%; or replacing acetonitrile with methanol, etc.
2. If the entire contents of the tube are not soluble in your solution of choice, spin the tube down in a microcentrifuge, then transfer the supernatant to a new microfuge tube. This solution contains the saturated MALDI matrix.

Note: A 5 mg/mL solution or lower in the above solvents can also be employed.

Dried Droplet Method

1. Mix the saturated matrix solution (or other matrix concentrated solution) with your sample.
2. Apply 0.2 to 1.0 µL of this solution onto the MALDI sample plate.
3. Allow the matrix:sample to co-crystallize through evaporation at room temperature.
4. Place MALDI plate in MALDI-MS Ion Source and analyze samples.

Thin Layer Method is also a good option, although this is not covered in this product sheet.

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