

## **DHAP Protocol and Product Information Sheet**

Product Category:	UltraPure MALDI Matrices
Catalog Number(s):	<u>p9105-5x10mg, p9105-25mg, p9105-1gm</u>
Product Name:	DHAP Matrix
Alternative Name(s):	1-Acetyl-2,4-dihydroxybenzene, 2',4'-Dihydroxyacetophenone
CAS Number:	89-84-9
Chemical Formula:	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>
Molecular Weight:	152.15
Storage:	Upon receipt store at 4°C (shipped at ambient temperature).

Since there are many preparations and a wide variety of techniques where 2',4'-Dihydroxyacetophenone and other MALDI matrices are used, below is intended to be only a general protocol or a starting point, not necessarily the best for your particular application.

## DHAP MALDI Matrix Preparation (Saturated Method) - NOT FULLY DISSOLVED

- 1. Dissolve the contents of the tube (10-25mg) in 0.5 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%; lower concentration of TFA, such as 0.01%; or replacing acetonitrile with methanol, etc.).
- 2. If the entire contents of the tube is 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. A slightly higher concentration will be achieved by first dissolving in Acetonitrile alone, then adding aqueous 0.1% TFA.

## Dried Droplet Method

- 1. Mix the saturated matrix solution (or other matrix concentrated solution) with your sample.
- 2. Apply 0.2 to 1.0  $\mu$ L 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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