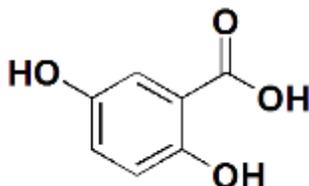


DHB Matrix Protocol and Product Information Sheet

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|----------------------|--|
| Product Category: | UltraPure MALDI Matrices |
| Catalog Number(s): | p9101-25mg , p9101-5x10mg , p9101-4x25mg , p9101-1gm |
| Product Name: | DHB Matrix |
| Alternative Name(s): | 2,5-Dihydroxybenzoic acid; DHB Matrix |
| CAS Number: | 490-79-9 |
| Chemical Formula: | C ₆ H ₆ O ₄ |
| Molecular Weight: | 154.12 |
| Wavelength: | 337 nm, 355 nm |



Since there are many preparations and a wide variety of techniques where 2,5-Dihydroxybenzoic acid 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.

MALDI Matrix Preparation (Saturated Method) – NOT FULLY DISSOLVED

1. Dissolve the contents of the tube (10-25mg) 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%; 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 μ 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 it is not covered in this product sheet.