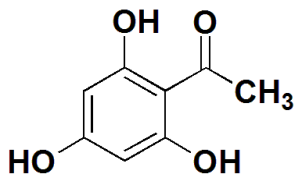


THAP Protocol and Product Information Sheet

Product Category:	UltraPure MALDI Matrices
Catalog Number(s):	p9104-5x10mg
Product Name:	THAP
Alternative Name(s):	2',4',6'-Trihydroxyacetophenone monohydrate
CAS Number:	480-66-0
Chemical Formula:	C ₈ H ₈ O ₄
Molecular Weight:	186.16
Typical Working Solution:	50:50:0.1 Water:Acetonitrile:TFA



Since there are many preparations and a wide variety of techniques where THAP 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.

THAP MALDI Matrix Preparation

1. Dissolve the contents of the tube in 250 μ L of 50% acetonitrile, 50% proteomics grade water and 0.1% TFA (25 mg/mL). 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.

Dried Droplet Method

1. Mix the 25 mg/mL 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 this is not covered in this product sheet.