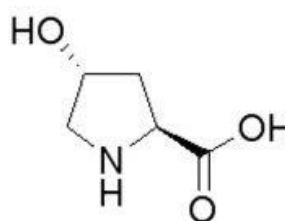
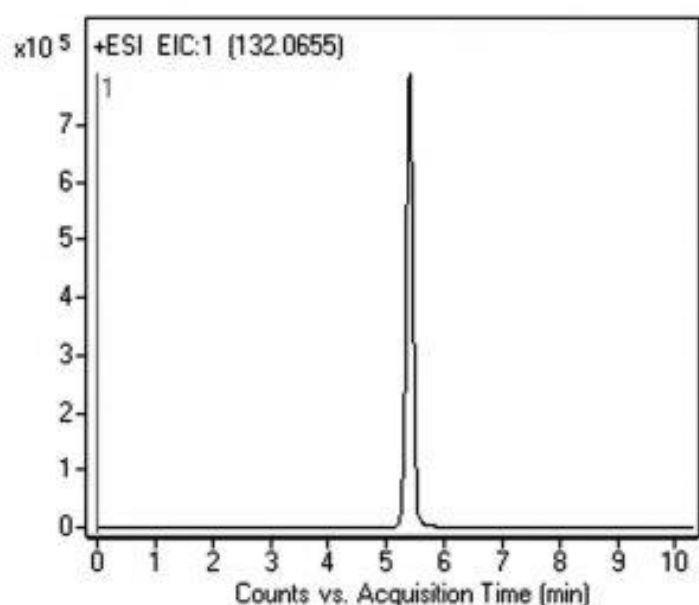


## Proline: Trans-4-Hydroxy-L-Proline by LCMS - AppNote

### Rapid, High Efficiency Method by LCMS

This method is highly specific, efficient and fast for the analysis detection, small volumes of the reaction mixture can be injected and of *trans*-4-hydroxy-L-proline. Due to the high specificity of the the amount of the produced compound can be determined. No derivatization is required for the detection of this important compound.



#### Peak:

Trans-4-Hydroxy-L-Proline 132.0655 m/z (M + H)<sup>+</sup>

### Method Conditions

**Column:** Cogent Diamond Hydride™, 4μm, 100Å

**Catalog No.:** [70000-05P-2](#)

**Dimensions:** 2.1 x 50mm

#### Mobile Phase:

A: 50% Methanol / 50% DI Water / 0.05% Acetic Acid

B: 97% Acetonitrile / 3% DI Water / 0.05% Acetic Acid

#### Gradient:

Time (minutes)	%B
0	95
10	30
11	30

**Post Time:** 5 minutes

**Flow rate:** 0.4 mL / minute

**Detection:** ESI – POS - Agilent 6210 MSD TOF Mass Spectrometer

**Injection vol.:** 1µL

**Sample Preparation:**

**Stock Solution:** 1 mg / mL in Methanol diluent.

**Working Solution:** Stock aliquot was diluted using 50% Solvent A and 50% Solvent B mixture for the final concentration 0.5 mg / L. Before injection, solution was filtered using a 0.45µm Nylon Syringe Filter (MICROSOLV Tech Corp.).

**Note:** Isomers of Hydroxyproline have been found in nature. *Trans-4-Hydroxy-L-Proline* is the major component of Collagen, Gelatin, plant wall Proteins, etc. It is a useful material for synthesis of pharmaceuticals such as Angiotensin converting enzyme inhibitors and Carbapenem antibiotics.



## Attachment

**No 131 Trans-4-Hydroxy-L-Proline by LCMS pdf** 0.2 Mb [Download File](#)

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