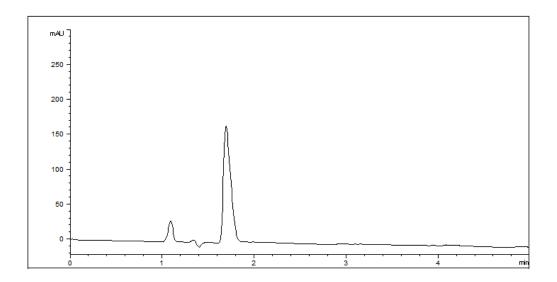


## Guanidine analyzed with HPLC- AppNote

## A Straightforward HPLC-UV method for Guanidine

A simple Method was developed for the analysis of Guanidine, a highly basic (pKa 12.5), and polar compound. Pre-column derivatization was not used in this method, but if higher sensitivity is needed for lower concentrations, ELSD could be employed.



$$H_2N$$
 $NH$ 
 $NH_2$ 

Guanidine

## **Peaks:**

1. Impurity

2. Guanidine

## **Method Conditions**

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

**Catalog No.:** <u>70000-10P</u>

**Dimensions:** 4.6 mm x 100mm

Mobile Phase: 50% DI Water / 50% Acetonitrile / 0.1% Formic Acid

**Injection vol.:** 1µL

Flow rate: 1.0 mL / minute Detection: UV @195 nm

**Sample Preparation:** 1.7 mg/mL Guanidine in Mobile phase

*Note:* This method could be used for clearance testing of guanidine in biopharmaceutical products.



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