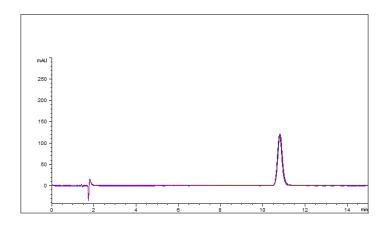


## Elemental Sulfur analyzed with HPLC - AppNote

## **Analyzing elemental Sulfur content**

A simple and reproducible method has been developed for analysis of elemental Sulfur. The data below, (an overlay of 5 chromatograms) illustrates how the compound can be adequately retained in HPLC with good precision and peak shapes using this straightforward method.



Peak: Sulfur

## **Method Conditions:**

**Column:** Cogent Bidentate C18<sup>™</sup>, 4µm, 100Å.

Catalog No.: 40018-15P

**Dimensions:** 4.6 mm x 150 mm

Mobile Phase: (90:10) Acetonitrile / DI water with 0.1% formic acid.

Injection vol.: 3 µL

Flow rate: 1.0 mL / minute Detection: UV @ 263 nm

Sample Preparation: 0.5 mg/mL Sulfur (7704-34-9) in DCM

**%RSD:** <0.1% **t<sub>0</sub>:** 1.7 minutes

**K':** 5.2

Notes: This method could be used for determination of elemental Sulphur in soils, using DCM as the extracting solvent. Note 2: Capacity was determined using the following equation:  $k = (t_R - t_0) / t_0$ 

 $t_R$  = Retention time of an analyte peak

 $t_o$  = Retention time of non-retained peak



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