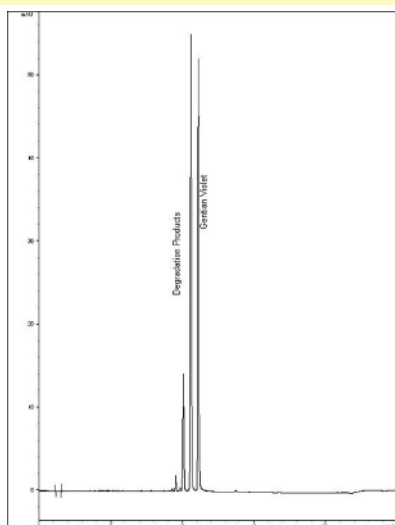
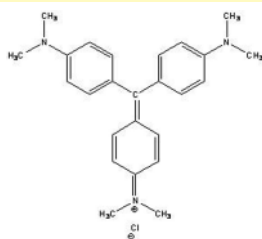


## Separating Related Compounds Gentian Violet and Degradation Products



**Note:** Gentian Violet is an antifungal agent, staining agent (gram stain test), topical ointment for burns and for finger printing. This product does not require a prescription but is not easily found in most drug stores. Typically it is prepared as a weak solution (0.1%) in water and is painted on skin and gums to fight off fungal infections. Gentian Violet has many uses and is also known as Andergon, Aniline violet, Brilliant Violet 58, Meroxylan, Methyl Violet 10BNS, Vianin and others. Gentian Violet refers to its color and is not made from gentians.

### Method Conditions

**Column:** Cogent HPS Cyano<sup>™</sup>, 5µm, 120Å  
**Catalog No.:** 75025-15P  
**Dimensions:** 4.6 x 150 mm  
**Mobile phase:** Solvents: A: 10% Acetonitrile+90%  
 10mM NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub>  
 B: 70% Acetonitrile+30%  
 10mM NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub>  
 Gradient: 0-100% B over 15 minutes  
 (linear gradient)  
**Flow rate:** 1.5 mL/minute  
**Peaks:** 1-3. Degradation Products  
 4. Gentian Violet  
**Injection Volume:** 20 µL  
**Detection:** UV 588 nm  
**Temperature:** 25°C  
**Solubility:** Water & Chloroform. Insoluble in ether

### Discussion

Gentian Violet degrades in solution, forming complex set of degradation products. This method can easily separate out the various compounds formed in solution. The figure on the left shows a USP standard of Gentian Violet after stressing it in solution thus creating degradation products. With excellent selectivity as shown as well as great peak shape this method is robust and easy to perform. The HPS Cyano column is very stable and produces very high efficiency in this method making it a great choice for analysis.

For more information visit [www.MTC-USA.com](http://www.MTC-USA.com)

Cat. No.	Description
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75025-15P	Cogent HPS Cyano <sup>™</sup> HPLC Column, 5mm, 120A, 4.6mm x 150mm
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