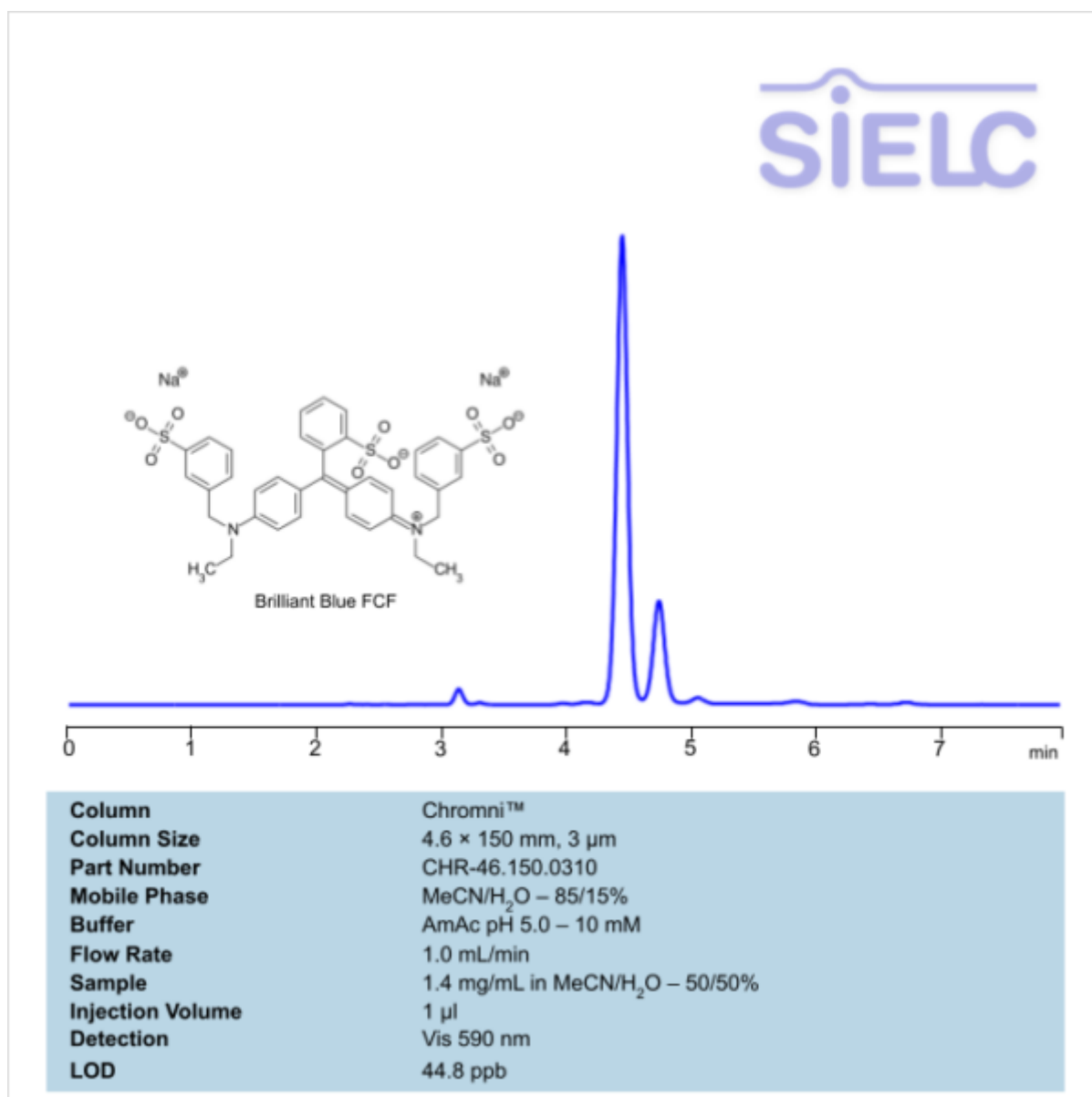


HPLC Method for Analysis of Brilliant Blue FCF (FD&C Blue No. 1) on Chromni Column

<https://sielc.com/hplc-method-for-analysis-of-brilliant-blue-fcf>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Brilliant Blue FCF (Blue 1) .

Brilliant Blue FCF , also known as Blue 1 , is a triarylmethane dye with the chemical formula $C_{37}H_{34}N_2Na_2O_9S_3$. Dry, it has the appearance of a light-blue powder, but when dissolved in water, turns deeper blue . It is used primarily as a blue colorant in medication, food, and cosmetics. It is one of the oldest FDA-approved color additives, having been listed since the 1969. You can find detailed UV spectra of Brilliant Blue FCF (Blue 1) and information about its various lambda maxima by visiting the following link.

Brilliant Blue FCF (Blue 1) can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) and ammonium acetate. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	AmAc pH 5.0 – 10 mM
Flow Rate	1.0 ml/min
Detection	Vis 590 nm
Class of Compounds	Dyes
Analyzing Compounds	Brilliant Blue FCF (Blue 1)

HPLC Column Used

Chromni, 4.6 x 150 mm, 3 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)