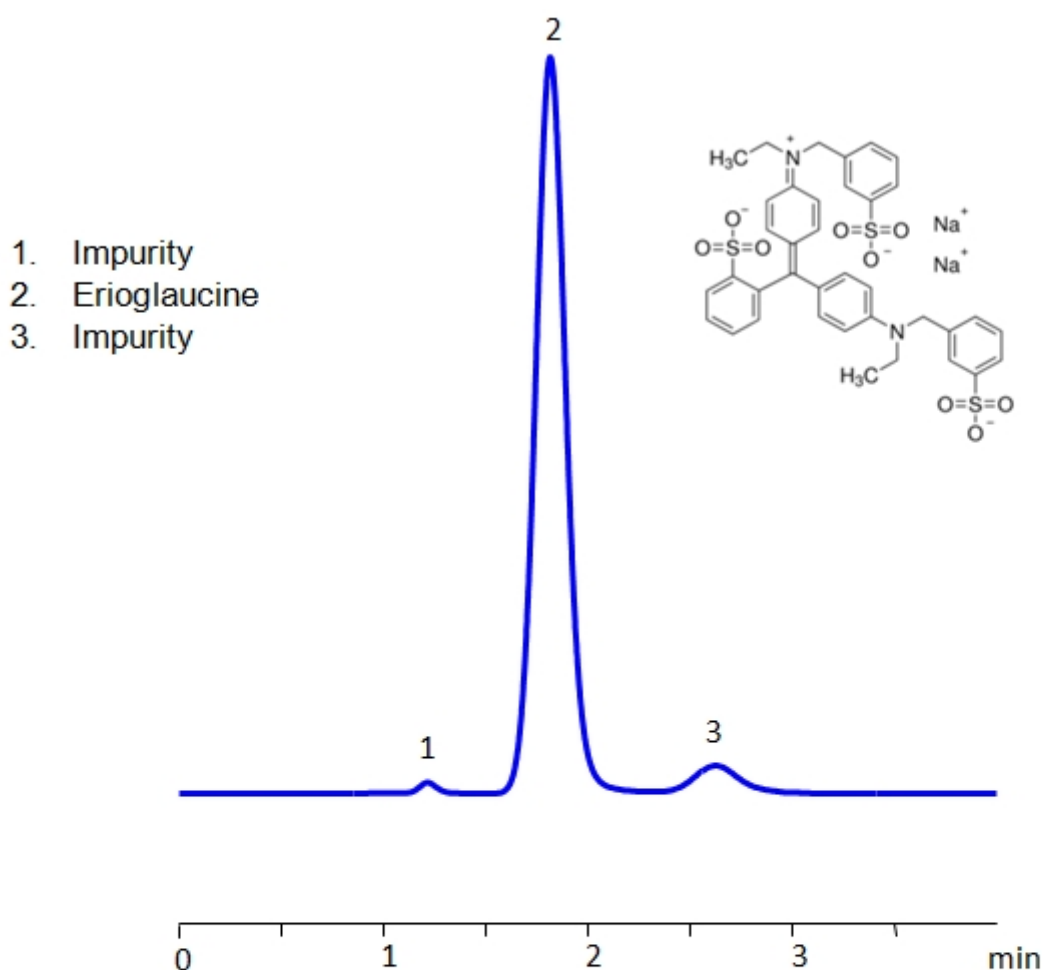


HPLC Determination of Erioglaucine on Newcrom BH Column

<https://sielc.com/hplc-determination-of-erioglaucine>

Chromatogram



Column:	Newcrom BH
Column size:	4.6 × 50 mm, 5 µm
Mobile phase:	MeOH/H ₂ O – 50/50%
Buffer:	H ₂ SO ₄ – 1%
Flow rate:	1 ml/min
Detection:	Vis 625 nm

Description

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

Erioglaucine, more commonly known as Brilliant Blue FCF, is a synthetic coloring dye used in many industries as a colorant for foods, medications, cosmetics, etc. It is a multi-charged molecule and generally has poor peak shape on reverse-phase HPLC columns. By using a Newcrom BH mixed-mode column with both ion-exchange and hydrophobic properties, erioglaucine can be retained and exhibits great peak shape by using a mobile phase of methanol (MeOH) and water with sulfuric acid as buffer. UV

detection at 625nm.

You can find detailed UV spectra of Brilliant Blue and information about its various lambda maxima by visiting the following link.

Method Parameters

Mobile Phase	MeOH/H ₂ O – 50/50%
Buffer	H ₂ SO ₄ – 1%
Flow Rate	1.0 ml/min
Detection	Vis 625 nm
Class of Compounds	Acid, Dyes
Analyzing Compounds	Brilliant Blue FCF (Blue 1)

HPLC Column Used

Newcrom BH, 4.6 x 50 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](#)