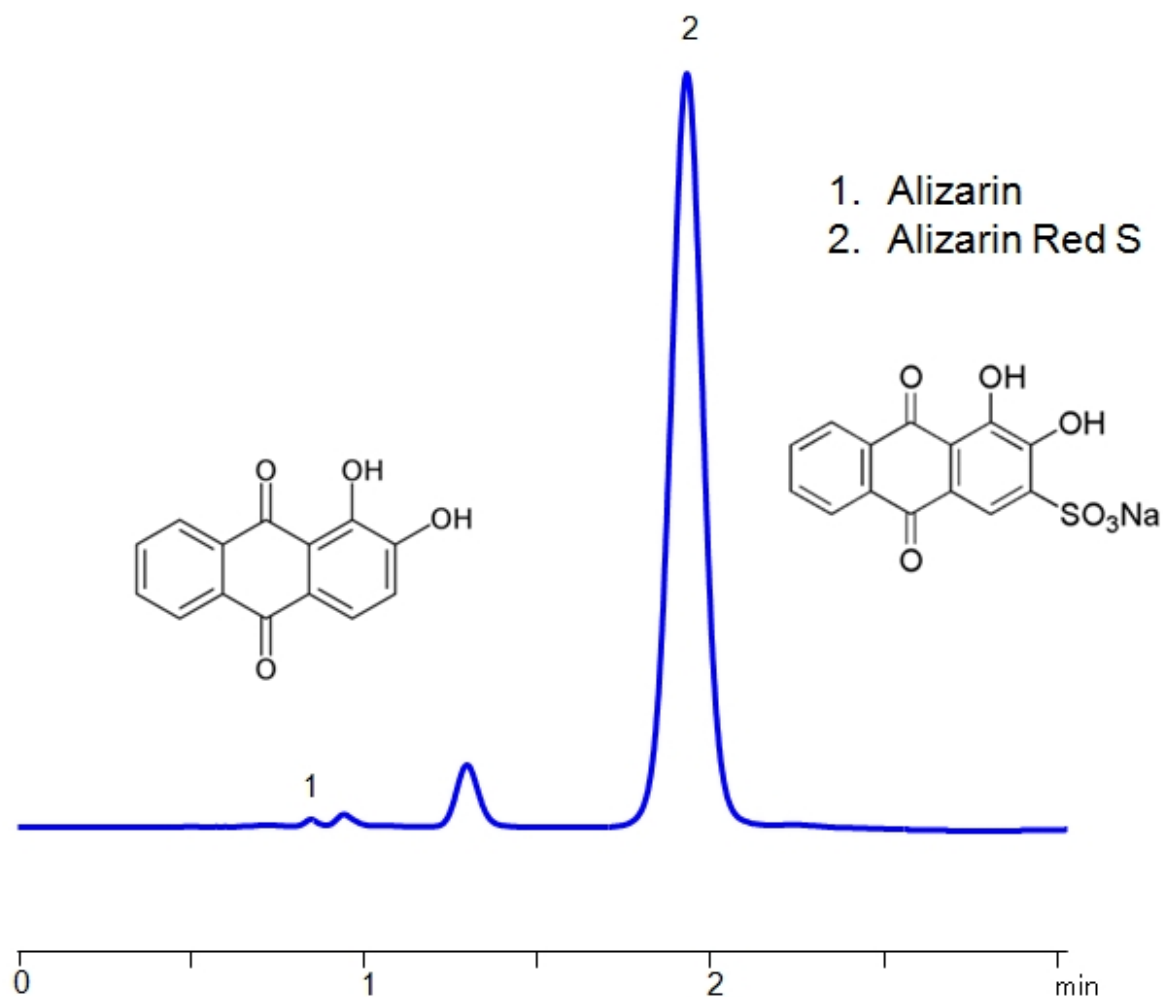


HPLC Separation of Alizarin and Alizarin Red S on Newcrom BH Column

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

Chromatogram



Column:	Newcrom BH
Column size:	4.6 × 50 mm, 5 µm
Mobile phase:	MeOH/H ₂ O – 75/25%
Buffer:	H ₂ SO ₄ – 0.5%
Flow rate:	1 ml/min
Detection:	UV 250 nm

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Alizarin , Alizarin Red S .

Alizarin and Alizarin Red S are both dyes with applications in locating calcium deposits in tissues. They differ in Alizarin Red S having an additional sulfonic acid group. They can be separated in HPLC using a Newcrom BH mixed-mode column using a mobile phase of methanol (MeOH) and water and sulfuric acid (H₂SO₄) as a buffer. UV detection at 250nm.

Method Parameters

Mobile Phase	MeOH/H ₂ O – 75/25%
Buffer	H ₂ SO ₄ – 0.5%
Flow Rate	1.0 ml/min
Detection	UV 250 nm
Class of Compounds	Acid, Dyes
Analyzing Compounds	Alizarin, Alizarin Red S

HPLC Column Used

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

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