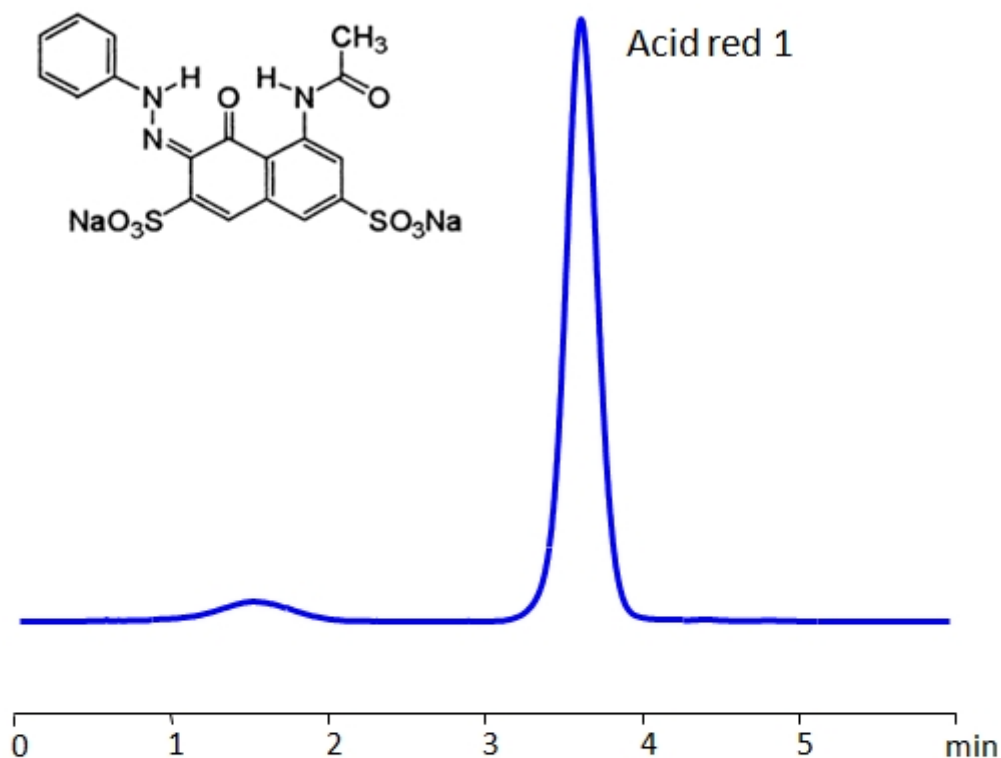


HPLC Determination of Acid red 1 on Newcrom BH Column

<https://sielc.com/hplc-determination-of-acid-red-1>

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:	Vis 535 nm

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of C.I. Acid Red 1 .

Acid Red 1, also known as Red 2G, is a synthetic dye that's used as a food additive. It has been banned in several countries due to safety concerns because it forms aniline in the body that can interfere with the function of hemoglobin. Acid Red 1 can be retained on HPLC mixed-mode Newcrom BH column using a mobile phase consisting of methanol (MeOH) and water with sulfuric acid (H₂SO) buffer. Vis detection at 535nm.

Method Parameters

Mobile Phase

MeOH/H₂O – 75/25%

Buffer	H2SO4 – 0.5%
Flow Rate	1.0 ml/min
Detection	Vis 535 nm
Class of Compounds	Acid, Dyes
Analyzing Compounds	C.I. Acid Red 1

HPLC Column Used

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

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