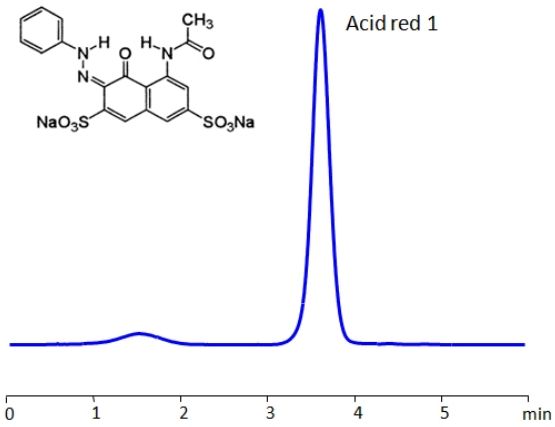
HPLC Determination of Acid red 1 on Newcrom BH Column



Column:	Newcrom BH
Column size:	4.6 × 50 mm, 5 µm
Mobile phase:	MeOH/H2O – 75/25%
Buffer:	H2SO4 – 0.5%
Flow rate:	1 ml/min
Detection:	Vis 535 nm

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 535 nm.

Method Parameters

Column	Newcrom BH, 4.6 x 50 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeOH/H2O – 75/25%
Buffer	H2SO4 – 0.5%
Flow Rate	1.0 mL/min
Detection	Vis 535 nm

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

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