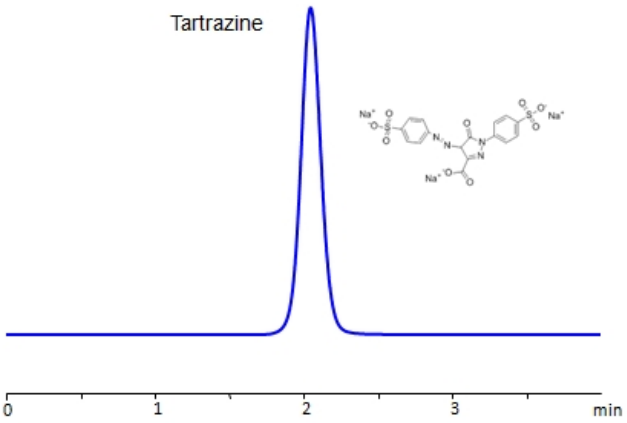
HPLC Determination of Tartrazine (Yellow 5) on Newcrom BH Column



Column:	Newcrom BH
Column size:	4.6 × 50 mm, 5 µm
Mobile phase:	MeOH/H2O – 75/25%
Buffer:	H2SO4 – 1%
Flow rate:	1 ml/min
Detection:	UV 430 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Tartrazine (FD&C Yellow 5) .

Tartrazine is a yellow food coloring agent. It's a trisodium salt, and like many multi-charged molecules tends to exhibit significant tailing using reverse-phase HPLC columns. By using a mixed-mode column, specifically designed in mind for multiple charges, Newcrom BH can retain tartrazine with perfect peak shape using a mobile phase of methanol (MeOH) and water with sulfuric acid (H2SO4) to facilitate ion-exchange. UV detection at 430 nm.

You can find detailed UV spectra of Yellow 5 and information about its various lambda maxima by visiting the following link.

Method Parameters

Column	Newcrom BH, 4.6 x 50 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeOH/H2O – 75/25%
Buffer	H2SO4 – 1%
Flow Rate	1.0 mL/min
Detection	UV 430 nm

Quelle: https://sielc.com/hplc-determination-of-tartrazine-on-newcrom-bh-column

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