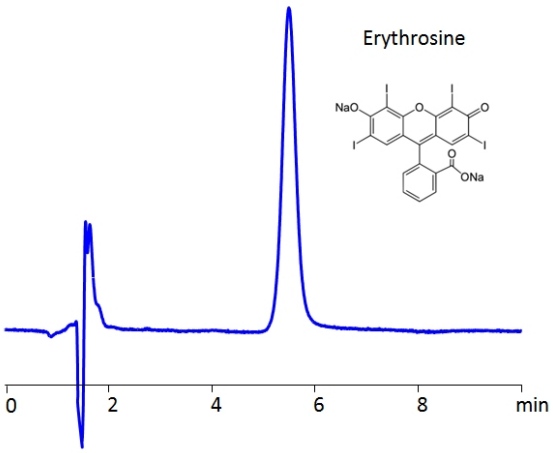
HPLC Method For Analysis of Erythrosine on Newcrom BH Column



Column:	Newcrom BH
Column size:	2.1 × 100 mm, 5 µm
Column part number:	NBH-21.100.0510
Mobile phase:	MeOH –75%
Buffer:	$HClO_4$ – 0.5%
Flow rate:	0.2 ml/min
UV detection:	240 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Erythrosine

Erythrosine (also known as Red #3) is a fluorescent red acid dye used for food coloring, pharmaceutical dye, in printing inks, as a biological stain, and as a dental plaque disclosing agent. It is banned in the european union for health risks. It has the chemical formula C20H6I4Na2O5 .

Erythrosine can be retained on HPLC mixed-mode Newcrom BH column using a mobile phase consisting of methanol (MeOH) and water with perchloric acid (HClO4) buffer. The analysis method can be UV detected at 240 or 498 nm.

Method Parameters

Column	Newcrom BH, 2.1 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeOH/H2O – 75/25%
Buffer	HClO4 – 0.5%
Flow Rate	0.2 mL/min
Detection	UV 240, 480 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-erythrosine