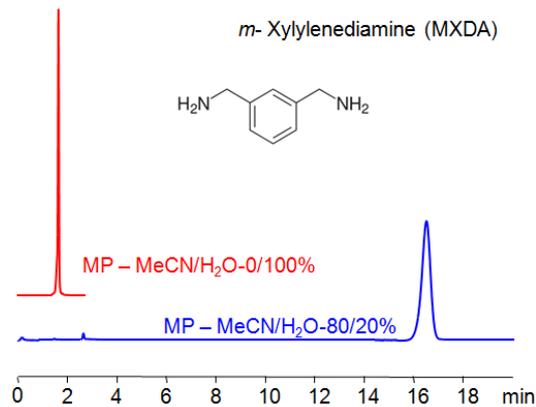


HPLC Method for Analysis of m-Xylylenediamine (MXDA) on BIST™ B+ Column



Column:	BIST™ B+
Column Size:	4.6 × 150 mm, 5 μm
Column part number:	TBP-46.150.0510
Buffer:	H ₂ SO ₄ – 0.2%
Flow Rate:	1.0 ml/min
Detection:	UV 210 nm

Separation type: Bridge Ion Separation Technology, or BIST™

BIST Ionic Modifier Preparation

High Performance Liquid Chromatography (HPLC) Method for Analysis of *m*-Xylylenediamine (MXDA)

HPLC Method for Analysis of *m*-Xylylenediamine on a BIST™ B Column. *m*-Xylylenediamine (MXDA) is a popular curing agent used on epoxy resins. Using SIELC's newly introduced BIST™ method, MXDA, which protonates in water, can be retained on a positively-charged anion-exchange BIST™ B column. There are two keys to this retention method: 1) a multi-charged, negative buffer, such as Sulfuric acid (H₂SO₄), which acts as a bridge, linking the positively-charged MXDA analytes to the positively-charged column surface and 2) a mobile phase consisting mostly of organic solvent (such as MeCN) to minimize the formation of a solvation layer around the charged analytes. Using this new and unique analysis method, MXDA can be retained and UV detected at 210 nm.

Method Parameters

Mobile Phase	MeCN – 80%
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 210 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-m-xylylenediamine-mxda>