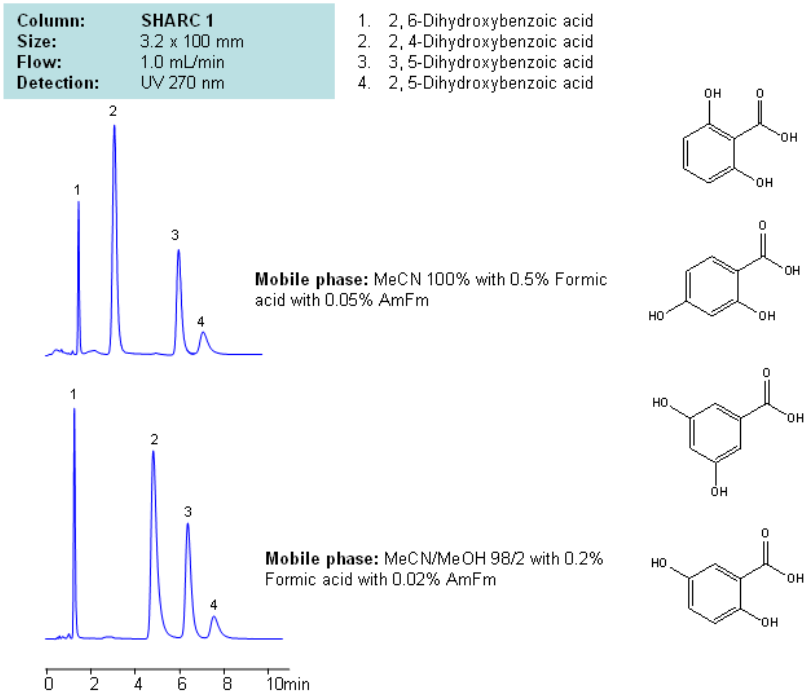
HPLC separation of Dihydroxybenzoic acid in Hydrogen-Bonding mode on SHARC 1 HPLC column



Application Notes: Dihydroxybenzoic acids are polar acidic compounds containing two hydroxyl groups as well as a carboxylic acid. Isomers of dihydroxybenzoic acids are very polar with varying degrees of acidity. While the isomers can be analyzed by mixed-mode chromatography on Primesep D column, the presence of hydroxyls and carboxylic acid fragments also make these compounds good candidates for using the new hydrogen bonding columns for analysis. Since all these compounds have the same amount of hydroxyls they are separated based on accessibility of this hydroxyl group. Retention time can be adjusted by the amount of ACN, MeOh and concentration of additives (formic acid, ammonium formate, triethylamine, etc.). Our method is fully compatible with LC/MS and prep chromatography and can be used for other hydroxy and carboxylic acids containing compounds..

Application Columns: SHARC1, 3.2×100 mm, 5 µm, 100 Å. To learn more about SHARC1columns click here . To order this column click here . To see more chromatographic separations check our web site.

Application Compounds: 2,6-dihydroxybenzoic acid, 2,4-dihydroxybenzoic acid, 3,5-dihydroxybenzoic acid, 2,5-dihydroxybenzoic acid

Detection Technique: UV, LC/MS

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Method Parameters

Column	Sharc 1, 3.2×100 mm, 5 µm, 100 Å
Mobile Phase	MeCN/MeOH
Buffer	AmFm, Formic acid
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

Quelle: https://sielc.com/HPLC_separation_of_Dihydroxybenzoic_acid_using_Hydrogen-Bonding