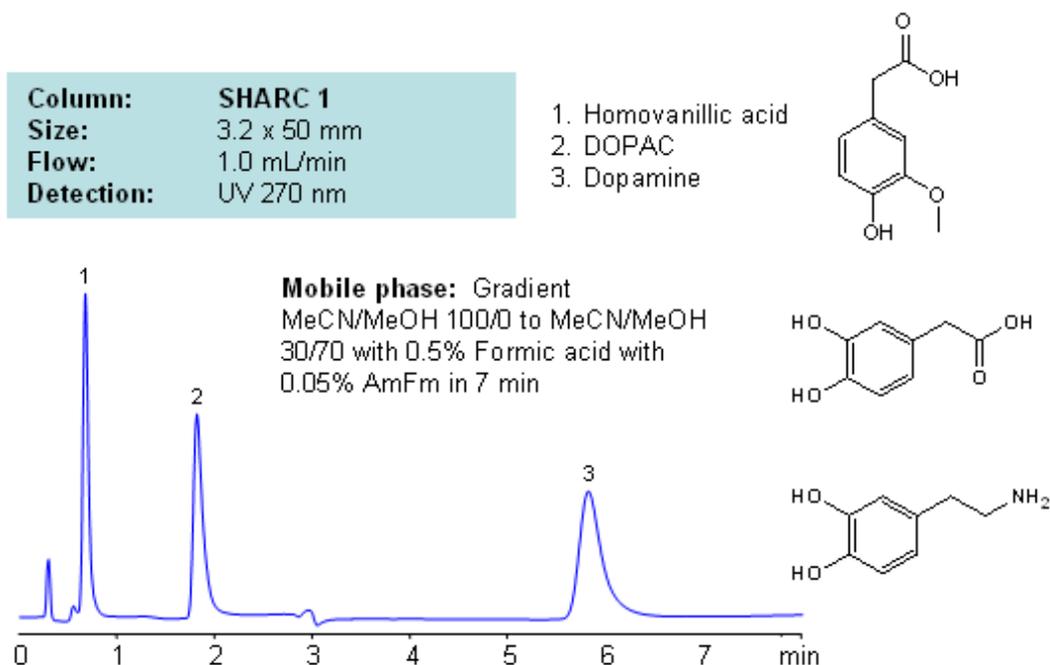# HPLC Separation of Homovanillic Acid, Dopamine, and DOPAC using Hydrogen Bonding

The SHARC™ family of innovative columns represents the first commercially available columns primarily utilizing separation based on hydrogen bonding. SHARC stands for Specific Hydrogen-bond Adsorption Resolution Column . Hydrogen bonding involves an interaction or attraction between a bound hydrogen atom and molecules containing electronegative atoms, such as oxygen, nitrogen, and fluorine.

Method Parameters

Column	Sharc 1, 3.2×50 mm, 5 µm, 100 Å
Mobile Phase	Gradient MeCN/MeOH – 100/0 – 30/70%
Buffer	Formic Acid – 0.5% AmFm 0.05% 7 min
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

Quelle: https://sielc.com/The_Separation_of_Homovanillic_Acid_Dopamine_and_DOPAC_using_Hydrogen_Bonding