Bleed test of septa by HPLC

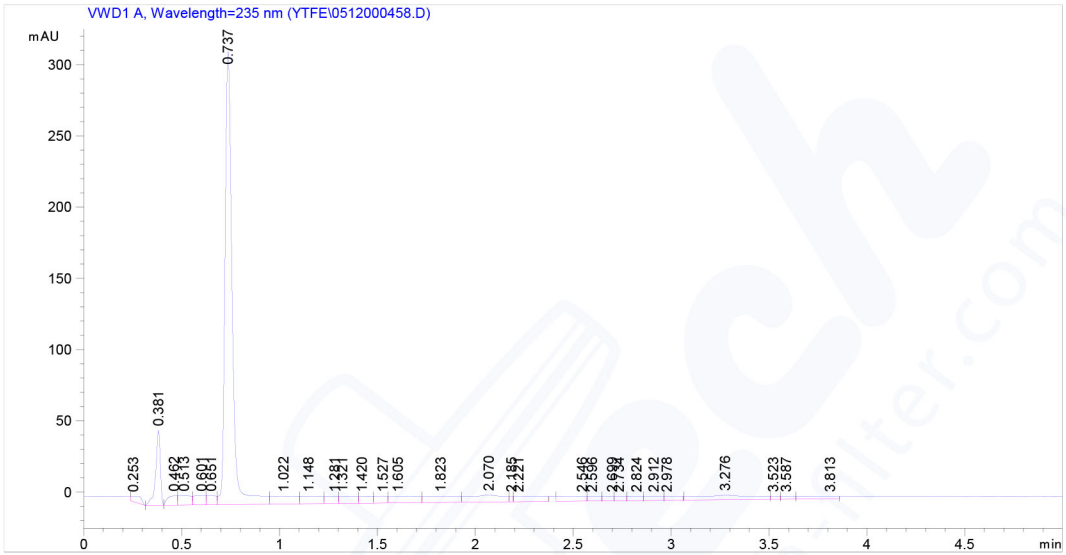
Experimental goal

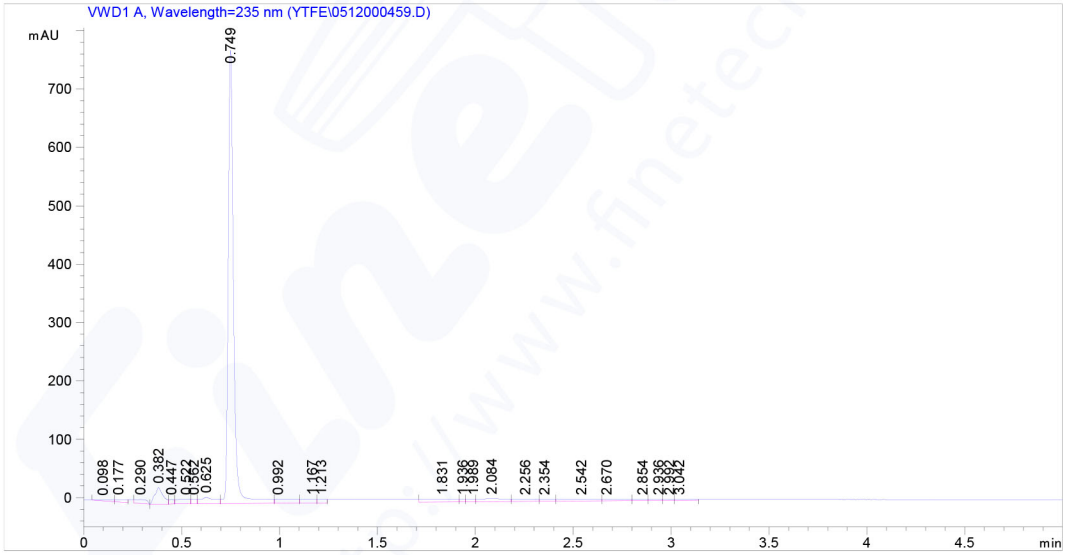
Bleed test of septa in the ACN/H_2O solvent by HPLC-UV detection.

EXPERIMENTAL	
instrument	Brand A 1200 LC
Wavelength	235 nm
Mobile phase	ACN:H_2O=40:60
Column	Kinetex 5μ C18 100A
flow	1.5 mL/min
Injection size	20.0 uL
Solvent	ACN:H_2O=1:1

Experimental result

(up: Brand A,down: Finetech)





RetTime [min](Brand A)	Width [min]	Area mAU	Height mAU	Area %
0.737	0.0386	814.18939	317.87524	49.7485
RetTime [min](Finetech)	**Width [min]**	**Area mAU**	**Height mAU**	**Area %**
0.749	0.0296	1481.08228	773.61224	69.0211

Summary

After 24 hours, the signal intensity of salicylic acids was not interference by extract from Finetech septa. The area of signal intensity for Finetech septa were higher than Brand A septa. Use of this lower bleed materials reduces the potential for sample error caused by septa bleed and improve overall reliability in ACN :H_2O (50:50) solvent condition.