

Extraction of Parabens from Baby Wash using Novum SLE 12cc Tube & Kinetex 5u EVO C18, 100x3.0

Column: Kinetex® 5µm EVO C18 100 Å, LC Column 100 x 3.0 mm, Ea

Dimensions: 100 x 3 mm ID

Order No: 00D-4633-Y0

Elution Type: Gradient

Eluent A: 10% acetonitrile in water

Eluent B: Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	90	10
	2	4	70	30
	3	5	60	40
	4	6	60	40

Flow Rate: 1.5 mL/min

Col. Temp.: ambient

Detection: UV-Vis Abs.-Variable Wave.(UV) @ 254 nm (ambient)

Analyst Note: Analytes

1. Methyl paraben

2. Ethyl paraben

3. Propyl paraben

4. Butyl paraben

Novum SLE 12cc Tube

8B-S138-KDG

Novum SLE 12cc Tube

Extraction Procedure

Sample pre-treatment

0.5 ± 0.05 g spiked Aveeno Baby (Wash & Shampoo) sample

Add 1.25 mL acetone

Add 0.6 ml 1% NaCl solution

Vortex for 30 secs

Wait 30 secs till the emulsion dissipates

Centrifuge for 10 mins at 3000 rpm

Collect the supernatant and proceed to load

Sample loading

"Load the sample from pre-treatment step above onto the Novum SLE cartridge and apply a short and gentle pulse of vacuum (~ 5" of Hg for 5-10 sec or until the sample has completely entered the media).

"Wait for 5 minutes.

Elution

"Dispense 10 mL of ethylacetate onto the SLE media and allow the solvent to elute by gravity for 10 mins and collect the eluant.

"Apply vacuum at 5"-10"of Hg to complete the extraction.

NOTE: Prolonged application of vacuum will result in elution of body wash out of the SLE media and into the final extracted solvent.

Dry down

"Evaporate the final extract to complete dryness under slow stream of N2 at 45°C

Reconstitute

"Reconstitute the dry residue in 0.5 mL of methanol

"Centrifuge for 5 mins at 6000 rpm

"Collect supernatant to shoot on HPLC

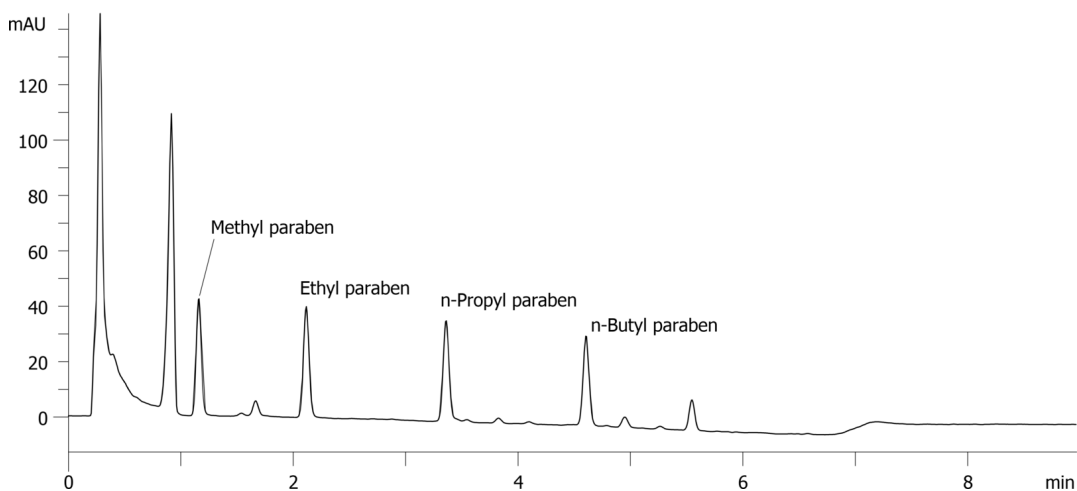


Products used in this application:



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App ID 22848



ANALYTES:

- 1** Methyl paraben
Retention Time: 1.18 min
- 2** Ethyl paraben
Retention Time: 2.14 min
- 3** Propyl paraben
Retention Time: 3.38 min
- 4** Butyl paraben
Retention Time: 4.6 min

