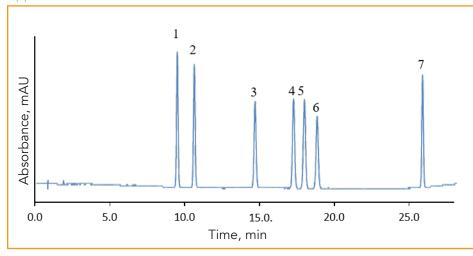
HALO

PHARMACEUTICALS



Chinese Pharmacopeia Separation of Parabens on HALO® C18, 2.7 µm

Application Note 177-P



PEAK IDENTITIES:

- 1. Isopropyl paraben
- 2. Propyl paraben
- 3. Phenyl paraben
- 4. Isobutyl paraben
- 5. Butyl paraben
- 6. Benzyl paraben
- 7. Pentyl paraben

A separation of parabens is performed on a HALO® C18 column showing high resolution between critical pairs using a Chinese Pharmacopeia method. Parabens are esters of para-hydroxybenzoic acid and have many varieties. Parabens are widely used in a variety of cosmetics as a preservative. This can include many things such as shampoos, moisturizers, makeup, and shaving gels.

TEST CONDITIONS:

Column: HALO 90 Å C18, 2.7 μm,

4.6 x 100 mm

Part Number: 92814-602

Mobile Phase: A: Water B: Methanol

Gradient: Time (min) % B

0.0 40 23.0 55 28.0 70

Flow Rate: 1.2 mL/min Initial Pressure: 403 bar Temperature: 30 °C

Detection: UV 252 nm, PDA **Injection Volume:** 1.5 µL

Sample Solvent: 50/50 methanol/water

Response Time: 0.025 sec

Data Rate: 40 Hz Flow Cell: 1.0 µL

LC System: Shimadzu Nexera X2

STRUCTURES:

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Isopropyl paraben

Propyl paraben



Isobutyl paraben

Benzyl paraben

Pentyl paraben