HALO: | Fused-Core® Particle Technology

Application Note: 047-STR

Separation of Structurally Similar Steroids on HALO C18 and PFP



PEAK IDENTITIES:

- 1. Prednisone
- 2. Cortisone
- 3. Prednisolone
- 4. Hydrocortisone

TEST CONDITIONS:

Columns: 4.6 x 100 mm, HALO C18 4.6 x 100 mm, HALO PFP Part Numbers: C18, 92814-602 PFP, 92814-609 Mobile Phase: 50/50: water/methanol Flow Rate: 1.0 mL/min. Pressure: About 230 Bar Temperature: 35°C Detection: UV 240 nm, VWD Injection Volume: 0.5 μ L Sample Solvent: 80% methanol in water Response Time: 0.02 sec. Flow Cell: 2.5 μ L semi-micro LC System: Shimadzu Prominence UFLC XR ECV: ~14 μ L



STRUCTURES:

Prednisone



Cortisone

Prednisolone



Hydrocortisone

The unique selectivity of HALO PFP is useful in the separation of the closely related steroids prednisolone and hydrocortisone. The electron-deficient ring structure of the perfluorophenyl group aids in separating compounds through pi-pi interactions with the sample.



FOR MORE INFORMATION OR TO PLACE AN ORDER, CONTACT:

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