

Steroids on YMC-Triart Phenyl - Excellent alternative to ODS phases

YMC-Triart Phenyl provides an excellent supplementary selectivity for your column screening portfolio. As a π -electron acceptor it interacts with aromatic compounds and conjugated systems. Furthermore, you have the option to work with 100% aqueous mobile phases with YMC-Triart Phenyl. A typical example shows that YMC-Triart Phenyl can separate 10 steroids in less than 12 minutes.



YMC-Triart Phenyl even separates beta- and alpha-estradiol (Peak No. 5 and 7)!

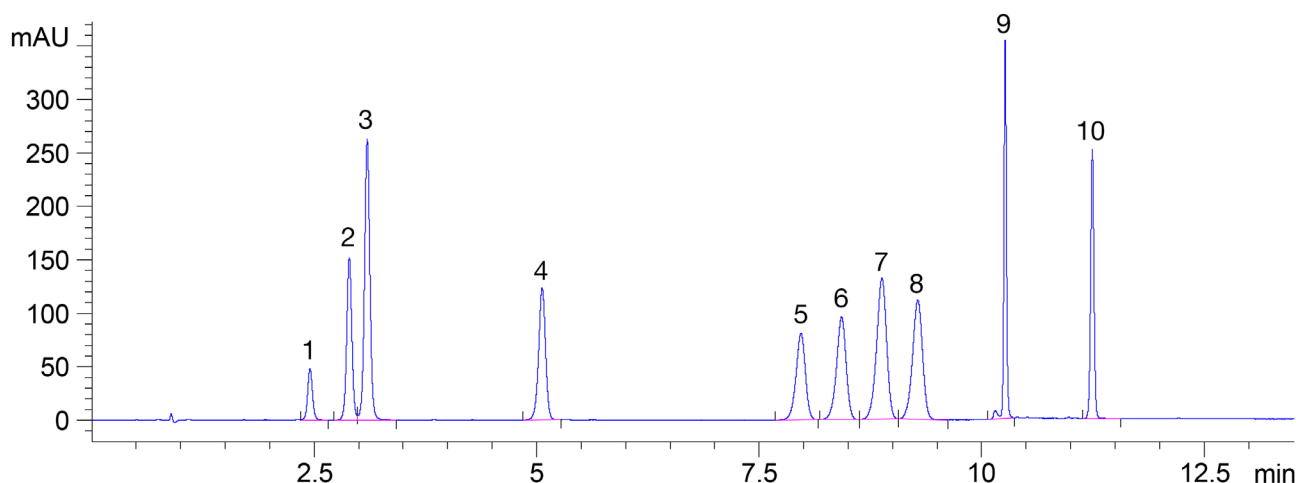


Figure 1: Separation 10 steroids on YMC-Triart Phenyl

Column	YMC-Triart Phenyl 1.9 μ m, 100 x 2 mm ID				
Part No.	TPH12SP9-1002PT				
Eluent	A: water; B: acetonitrile				
Gradient	Time [min]	0	9	9.1	20
	%B	29	35	60	60
Flow rate	0.3 mL/min				
Temperature	48°C				
Detection	UV at 220 nm				
Injection	0.5 μ L				

Table 1: Elution method details

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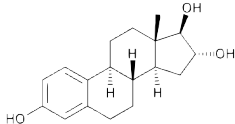
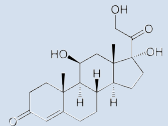
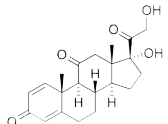
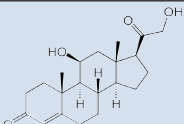
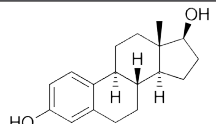
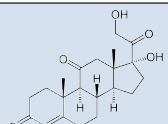
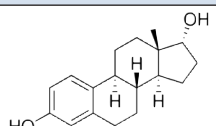
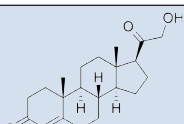
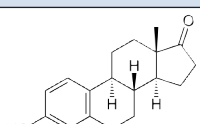
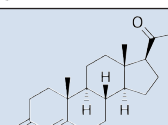
No.	Analyte	Structure	Concentration
1	Estriol		0.5
2	Cortisol / Hydrocortisone		0.5
3	Prednisone		0.5
4	Corticosterone		0.5
5	Beta-Estradiol		0.5
6	Cortisone / Cortisone acetate		0.5
7	Alpha-Estradiol		0.5
8	21-Hydroxyprogesterone		0.5
9	Estrone		0.3
10	Progesterone		0.3

Table 2: Steroid analytes used

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Author: Dr. Anja Bräutigam