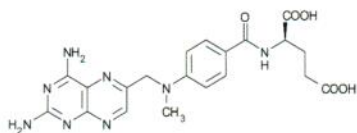
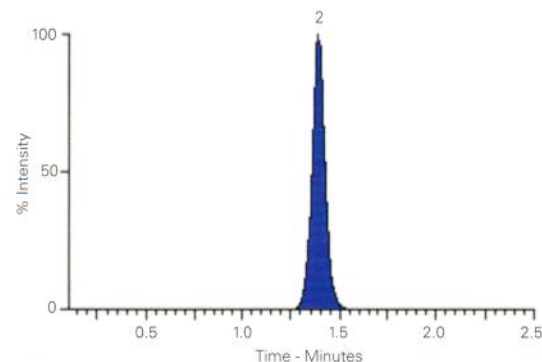
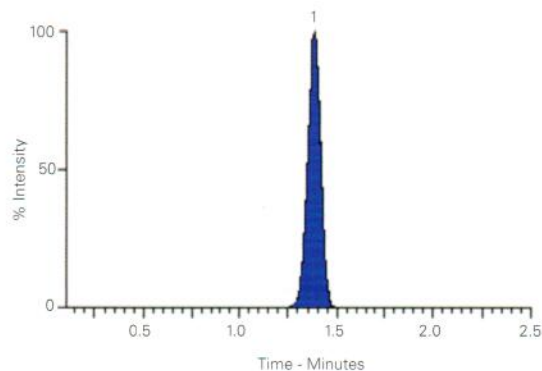


Conditions

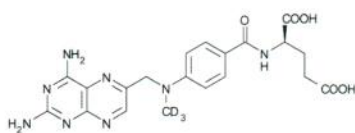
Column: ACE 5 CN
Dimensions: 150 x 4.6 mm
Part Number: ACE-124-1546
Mobile Phase: 10 mM ammonium formate
 pH 7.0/MeOH (60:40 v/v)
Flow Rate: 1 mL/min
Temperature: 40 °C
Detection: Quattro Premier XE triple quad MS
 Positive ion mode ESI
 Ion source temperature: 120 °C
 Desolvation temperature: 450 °C
Sample: Methotrexate and methotrexate-d3
 extracted using solid phase extraction

Analytes

1. Methotrexate
 (*m/z* 455 → 308)
 (LLOQ 1.0 ng/mL)
 (Concentration 100 ng/mL)
2. Methotrexate-d3 (I.S.)
 (*m/z* 458 → 311)
 (Concentration 50 ng/mL)



Methotrexate



Methotrexate-d3 (I.S.)

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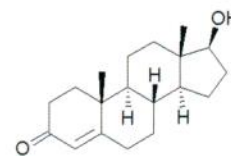
17 α -Methyltestosterone in Freshwater Tilapia Aquaculture

Conditions

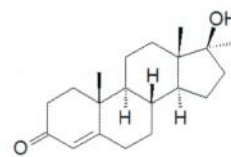
Column: ACE 5 C18
Dimensions: 250 x 4.6 mm
Part Number: ACE-121-2546
Mobile Phase: MeCN/H₂O (45:55 v/v)
Flow Rate: 1 mL/min
Injection: 20 μ L
Temperature: 25 °C
Detection: UV, 245 nm

Analytes

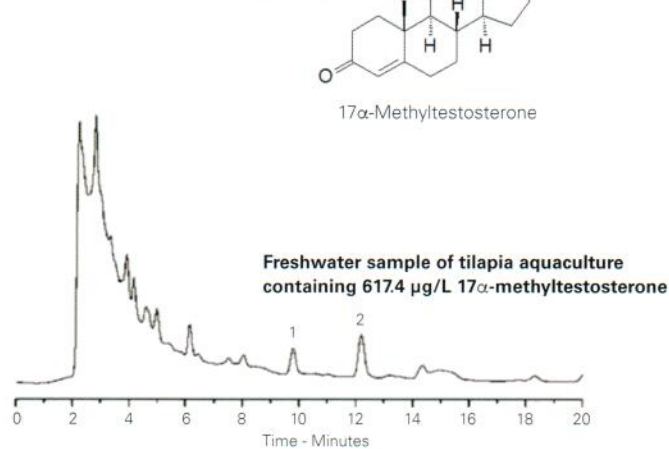
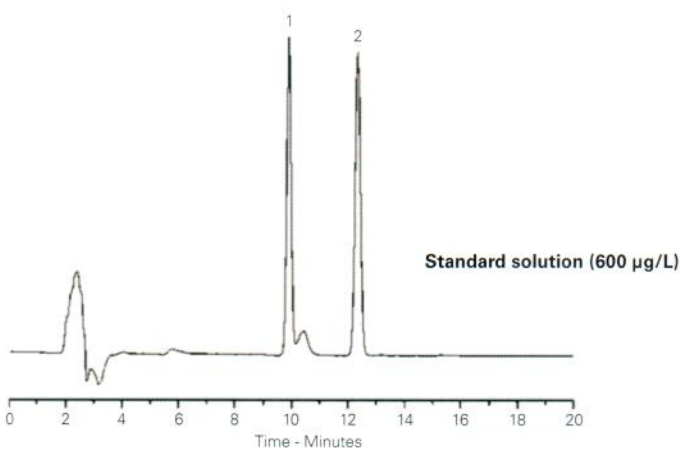
1. Testosterone (IS)
2. 17 α -Methyltestosterone



Testosterone (IS)

17 α -Methyltestosterone

17 α -Methyltestosterone is used for sex reversal of tilapia fish in order to avoid overpopulation in ponds. It therefore has to be monitored in aqueous matrices to prevent release into the environment.



Barbosa IR, Lopes S, Oliveira R, Domingues I, Soares AMVM, Nogueira AJA. Determination of 17 α -Methyltestosterone in Freshwater Samples of Tilapia Farming by High Performance Liquid Chromatography, American Journal of Analytical Chemistry, (2013), 4, 207-211. <http://dx.doi.org/10.4236/ajac.2013.44026>