17α-Methyltestosterone in Freshwater Tilapia Aquaculture

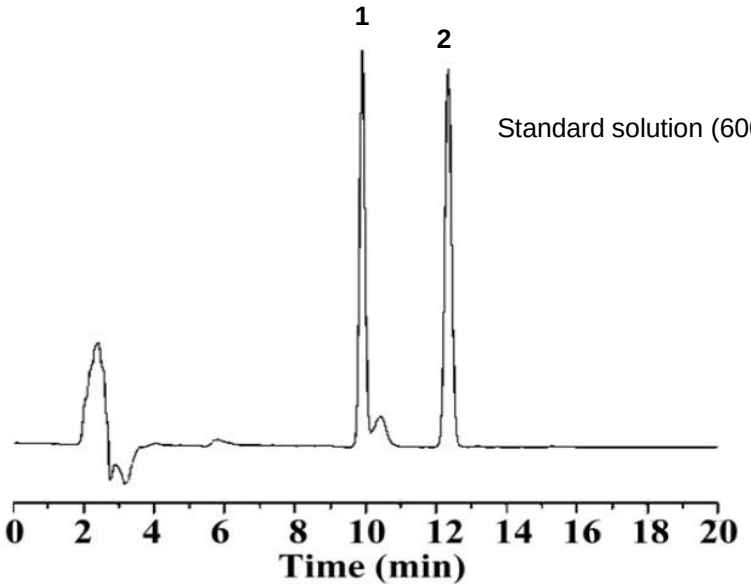
ACE®
Ultra-inert
UHPLC & HPLC Columns

Application #AN4340

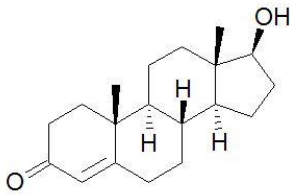
Conditions

Column:	ACE 5 C18
Dimensions:	250 x 4.6 mm
Part Number:	ACE-121-2546
Mobile Phase:	MeCN/H_2O (45:55 v/v)
Flow Rate:	1 mL/min
Injection:	20 µL
Temperature:	25 °C
Detection:	UV, 245 nm

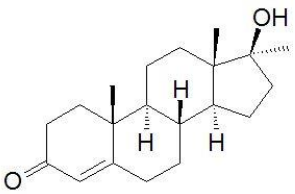
17α-Methyltestosterone is used for sex reversal of tilapia fish in order to avoid overpopulation in ponds. It therefore has to be monitored in aqueous matrices to prevent release into the environment.



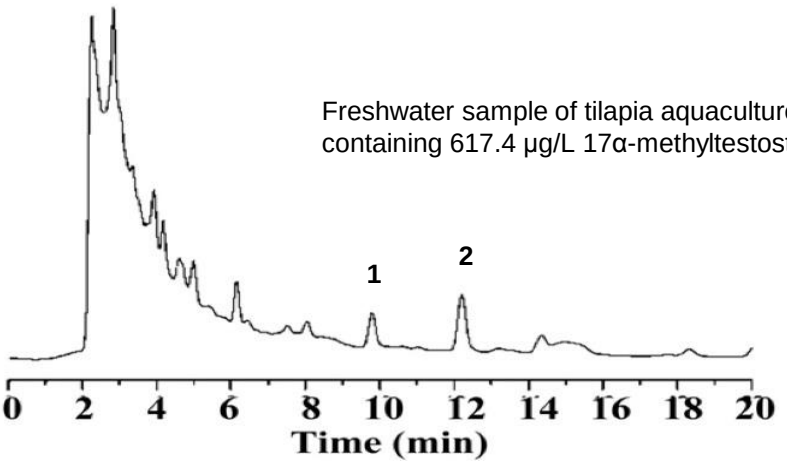
Standard solution (600 µg/L)



1. Testosterone (IS)



2. 17α-Methyltestosterone



Freshwater sample of tilapia aquaculture containing 617.4 µg/L 17α-methyltestosterone

Barbosa IR, Lopes S, Oliveira R, Domingues I, Soares AMVM, Nogueira AJA. Determination of 17α-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

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