



ANALYSIS OF ESTRONE SULFATE

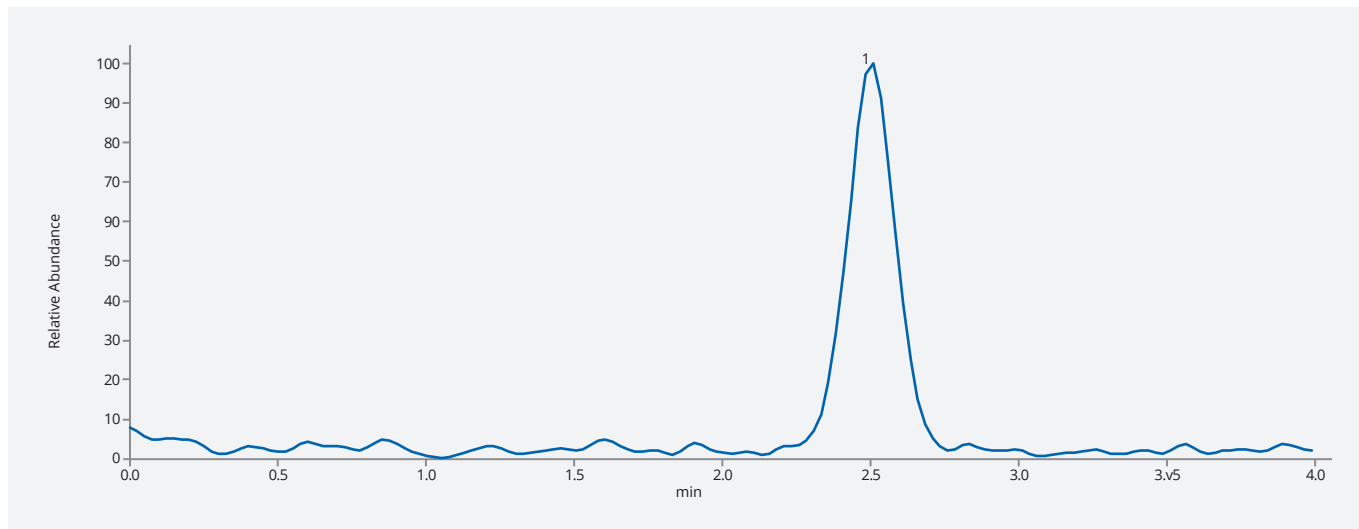
ABSTRACT

The proposed method represents a fast, reliable and sensitive measurement of estrone sulfate applicable for clinical investigations and routine analysis.

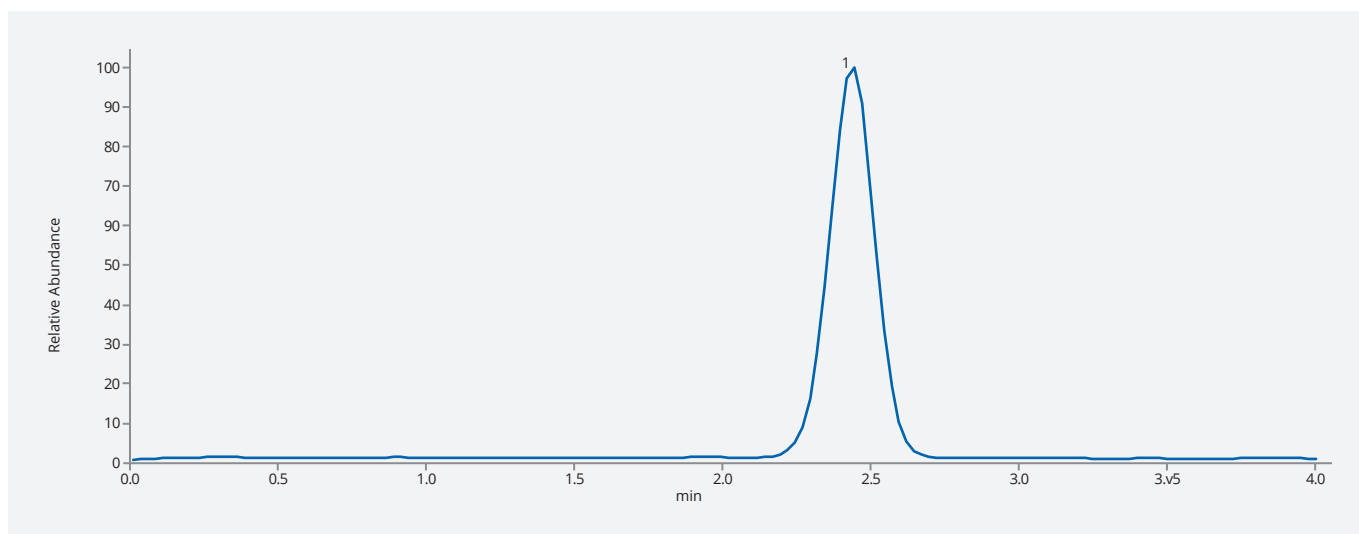
INTRODUCTION

Estrone sulfate is a plasma circulating hormone, considered as a depo of slowly-metabolized estrogen. Biologically inactive on estrogen receptors, estrone sulfate is transformed by steroid sulfatase to active estradiol. Estrone sulfate measurement can be used when estrogens levels are low and may not be measured accurately and as a potential marker in estrogen-associated malignancies.

Analysis of estrone sulfate



Plasma sample of estrone sulfate (E1S) at concentration of 10 pg/mL on ASTRA[®] C18-Hybrid column (RT 2.51)

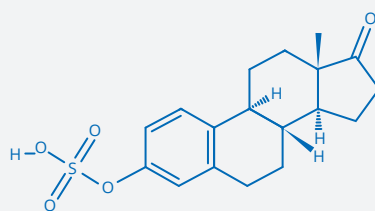


Internal standard of estrone sulfate d4 (dE1S) on ASTRA[®] C18-Hybrid column (RT 2.47)

Analysis of estrone sulfate

Chromatographic conditions

Column	ASTRA [®] C18-Hybrid, 5 µm
Dimensions	50 mm × 4.6 mm
Part number	AST-6016-LG46
Mobile phase	MeOH/50 mM NH ₄ HCO ₃ /H ₂ O
Temperature	50 °C
Detection	LC/MS/MS Thermo Altis
Injection volume	30 µL
Analytes	1. Estrone sulfate (E1S), CAS: 481-97-0



Estrone sulfate



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