Synthesis of Some Compounds of Activity against Some Hormonal Disturbances and Analytical Study on Chosen Examples from Compounds on the Market

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List of Abbreviations

AUP: Area under the peak

ASPEC: Automated Solid Phase Extraction Chromatography

K: Capacity factor

CE: Capillary electrophoresis

CV%: Coefficient of variance

C: Concentration

Cp max: Maximum concentration in plasma

R^2: Correlation coefficient

CYP: Cytochrome P 450

ΔA: Difference absorbance

DSC: Differential scanning calorimetry technique

DBD: DNA binding domain

EIA: Enzyme immunoassay

ERα: Estrogen receptor alpha

ERβ: Estrogen receptor beta

ERE: Estrogen response elements

FID: Flame ionization detector

FDS: Frequency-doubling scattering

ΔG: Free energy of binding

GC: Gas chromatography

GnRH: Gonadotropin releasing hormone

HDL: High density lipoprotein

HPLC: High performance liquid chromatography

HRE: Hormone response element

Kcal/mol: Kilocalorie per mole

LBD: Ligand binding domain

LP: Lipoprotein

LOD: Limit of Detection

LOQ: Limit of Quantitation

LC: Liquid Chromatography

LLE: Liquid liquid extraction

LDL: Low density lipoprotein

MS: Mass spectrometry

M±SD: Mean ± standard deviation

MEKC: Micellar Electro Kinetic Chromatography

NO: Nitric Oxide

n: Number of experiments

N: Number of theoretical plates

ODS: Octadecysiloxane

OVX: Ovary ectomized

PPM: Parts per million

PDB: Protein data bank

RRS: Resonance rayleigh scattering

RE%: Relative error %

RSD: Relative standard deviation

RP: Reversed phase

SERM: Selective estrogen receptor modulator

SAR: Structure activity relationship

SOS: Second-order scattering

SPE: Solid phase extraction

S.E: Standard error

SHBG: Sex hormone-binding globulin

t-test: Student's t-test

TCNQ: 7,7,8,8-Tetracyanoquinodimethane

TMS: Tetramethylsilane

TLC: Thin layer chromatography

TAF-1: Transcription activation factor 1

TAF-2: Transcription activation factor 2

TNF alpha: Tumor necrosis factor alpha

UV: Ultraviolet

USP-NF: United States Pharmacopeia – National Formulary

V: Varience

F-test: Variance ratio test

X: Mean

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