



بسم الله الرحمن الرحيم

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Analysis of some cosmeceutical preparations

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
”قَاتِلُوا سُجَّتَكُمْ لَا يَلِمُ لَنَا إِلَّا مَا
عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ“

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List of abbreviations

AA	Ascorbic acid
AC	Alternating current
ACN	Acetonitrile
AO	Antioxidant
BRB	Britton-Robinson buffer
CLA	Chloroaniline
CV	Cyclic Voltammetry
CS	Chitosan
DAD	Diode-array detector
DC	Direct current
DDS	Dodecyl sulfate
DOP	Diocetyl phthalate
DPV	Differential pulse voltammetry
DWS	Dual-wavelength spectrophotometric method
DWRS	Dual-wavelength in ratio spectra spectrophotometric method
EDTA-Tb	EDTA-Terbium
EMF	Electro-motive force
E_{pa}	Anodic peak potential
EXRS	Extended ratio subtraction spectrophotometry
FD and C	The Federal Food, Drug and Cosmetic Act
FIA	Flow injection analysis
GC	Gas chromatography
GCE	Glassy carbon electrode
GC-ECD	Gas chromatography-electron capture detection
GPO	Glutathione peroxidase
Gr-NC	Graphene Nanocomposite
GSH	Reduced glutathione
HE	Herbal exfoliant
2-HP-β-CD	2-hydroxypropyl-β-cyclodextrin
HPLC	High-performance liquid chromatography
ICH	International Conference on Harmonization
I_{pa}	Anodic peak current
IPA	Isopropyl alcohol
ISE	Ion selective electrode
IUPAC	International Union of Pure and Applied Chemistry
K-TCPB	potassium tetrakis(4-chlorophenyl) borate
LC	Liquid chromatography

LOD	Limit of detection
LOQ	Limit of quantitation
MCR	Mean centering ratio
MNPs	Magnetic nanoparticles
MPA	3-mercaptopropionic acid
MS	Mass spectrometry
MS/MS	Tandem mass spectrometry
MWCNTs	Multi-walled carbon nanotubes
NCAP	N-acetyl-4-S-cysteaniminyl phenol
Na-TPB	Sodium tetraphenylborate
PANI	Polyaniline
PABA	Para-aminobenzoates
PCA	Para-chloro-aniline
PCR	Principal component regression
PDA	Photodiode array
PGE	Pencil graphite electrode
PHMB-HCl	Polyhexamethylene biguanide
PLS	Partial least squares regression
PNCs	Polymer nanocomposites
PPY	Polypyrrole
PTFE	Poly tetrafluoroethylene
PVC	Poly vinyl chloride
QD	Quantum dot
R%	Recovery percent
r	Correlation coefficient
R_f	Retardation factor
ROS	Reactive oxygen species
RSD	Relative standard deviation
RSD%	Relative standard deviation Percentage
SC-ISE	Solid contact-Ion selective electrode
SD	Standard deviation
SLS	Sodium lauryl sulfate
SOD	Superoxide dismutase
SPE	Screen-printed electrodes
SSM	Separate solutions method
TEA	Triethylamine
TFA	Trifluoroacetic acid
THF	Tetrahydrofuran
TMAB	Tetramethylammonium bromide
T_R	Retention time
UV	Ultraviolet
XRD	X-ray Diffraction

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