

APPENDIX

1. Drugs

PLZ	-	Pioglitazone HCl
GLP	-	Glimepiride
RIV	-	Rivastigmine Tartarate
BIC	-	Bicalutamide

2. Chemicals and Reagents used

ARS	:	Alizarin Red-S
AM	:	Ammonium Molybdate
4-AP	:	4-amino phenazone
Ac ₂ O	:	Acetic anhydride
AcOH	:	Acetic acid
Bru	:	Brucine
BZ	:	Benzidine
C-A	:	Citric acid – Acetic anhydride
CAT	:	Chloramine -T
C-A	:	Citric acid – Acetic anhydride
Ce(IV)	:	Ceric ammonium sulphate
CTC	:	Cobalt Thio Cyanate
CH ₃ CHO	:	Acetaldehyde

3. Combination of Chemicals used as reagents in proposed methods

<u>Method</u>		<u>Reagent Combination used</u>
M _{1a}	:	TPooo
M _{1b}	:	ARS
M _{1c}	:	WFB.BL
M ₂	:	MBTH – Ce(IV)
M ₃	:	Brucine –IO ₄ ⁻
M ₄	:	Haet – CAT
M ₅	:	DCQC
M ₆	:	4 -AP
M ₇	:	INH
M ₈	:	CTC
M ₉	:	C-A
M ₁₀	:	SNP - HA
M ₁₁	:	AM-H ₂ SO ₄
M ₁₂	:	NQS
M ₁₃	:	DDQ
M ₁₄	:	PN – BZ

4. Symbols:

λ_{\max}	:	Wavelength of maximum absorption
ϵ_{\max}	:	Molar absorptivity
b	:	Slope
a	:	Intercept
S_b	:	Standard deviation on slope
S_a	:	Standard deviation on intercept
S_e	:	Standard error on estimation

DCQC	:	2,6-dichloro Quinone-4-Chlorimide
DDQ	:	2,3-dichloro-dicyno-1,4-benzoquinone
IO₄⁻	:	Sodium metaperiodate
INH	:	isonicotinic hydrazide
Haet	:	Haematoxylin
H₂SO₄	:	Sulphuric acid
HCl	:	Hydrochloric acid
IO₄⁻	:	Sodium metaperiodate
PNA	:	Para Nitro Aniline
MBTH	:	3-methyl-2-benzathiazolinone hydrazone
NaOH	:	Sodium Hydroxide
NaCl	:	Sodium Chloride
Na₂CO₃	:	Sodium Carbonate
NQS	:	Naphthaquinone sulphate
NH₂OH	:	Hydroxyl amine
SNP	:	Sodium Nitro Prusside
TP₀₀₀	:	Tropaeolin 000
WFB.BL	:	Wool Fast Blue –Black

r	:	correlation coefficient
°C	:	Degree Centigrade
M	:	Molar
g	:	Gram
µg	:	microgram
ml	:	milliliter
mg	:	milligram
%	:	percentage
>	:	greater than
<	:	less than
min	:	minutes
hr	:	hours
temp	:	temperature
%RSD	:	Percent Relative Standard Deviation
Fig	:	figure
Tab	:	Table
Syp	:	Syrup
Lab	:	Laboratory
Temp	:	Temperature
HPLC	:	High performance liquid chromatography
TLC	:	Thin layer chromatography
UV	:	Ultraviolet
MS	:	Mass Spectroscopy
IR	:	Infrared spectroscopy
VS	:	Visible spectroscopy
HPTLC	:	High performance thin layer Chromatography
TLC / MS	:	Thin layer Chromatography / Mass spectroscopy
LOD	:	Limit of Detection
K	:	Sample retention factor