

## APPENDIX

### 1. Drugs

ADCA	-	7-Aminodesacetoxy cephalosporanic acid
RFB	-	Rifabutin
AZA	-	Azelaic acid
CPTB	-	Capecitabine
CSB	-	Clostebol acetate

### 2. Chemicals and Reagents used.

BTB	:	Bromothymol blue
$\text{IO}_4^-$	:	Sodium metaperiodate
BCG	:	Bromo cresol green
4-Ap	:	4-amino phenazone
$\text{K}_3\text{Fe}[\text{CN}]_6$	:	Potassium ferricyanide
$\text{Na}_2\text{CO}_3$	:	Sodium Carbonate
BCP	:	Bromocresol purple
PMAP	:	P-N methyl amino phenol
SAc	:	Sulphanilic acid
SA	:	Sulphanilamide
NBS	:	N-Bromo succinimide
CB	:	Celestine Blue
GC	:	Gallocyanine
CAT	:	Chloramine-T
$\text{K MnO}_4$	:	Potassium Permanganate
FGFCF	:	Fast Green FCF

PHEN or o-phen or 1,10 PTL	:	1,10- phenanthroline
Fe(IV)	:	Ferric Chloride
AM	:	Ammonium Molybdate
AA	:	Ascorbic acid
VN	:	Vanillin
NQS	:	Naphthaquinone sulphate
I <sub>2</sub>	:	Iodine
β-NPT	:	β-Naphthol
DNPH	:	Dinitrophenyl hydrazine
SNP	:	Sodium Nitro Prusside
NH <sub>2</sub> OH	:	Hydroxyl amine
NIN or NH	:	Ninhydrin
CL	:	Chloronil
C-A	:	Citric acid – Acetic anhydride
Fe(III)	:	Ferric chloride
H <sub>2</sub> SO <sub>4</sub>	:	Sulphuric acid
HCl	:	Hydrochloric acid
AcOH	:	Acetic acid
CH <sub>3</sub> CHO	:	Acetaldehyde
MBTH	:	3-methyl-2-benzathiazolinone hydrazone
ARS	:	Alizarin Red-S
SFNO	:	Safranin-O
MB	:	Methylene Blue
NaOH	:	Sodium Hydroxide
NaCl	:	Sodium Chloride

$\text{Fe}(\text{CN}_6)^{3-}$	:	Potassium hexacyanoferrate(III)
DNPH	:	Dinitro phenyl hydrazine
$\text{Ac}_2\text{O}$	:	Acetic anhydride
FC	:	Folin ciocalteu reagent
Haet – CAT	:	Haematoxylin CAT
INH	:	Isonicotinic acid hydrazide

### 3. Combination of Chemicals used as reagents in proposed Methods

Method	Reagent Combination used
M <sub>1a</sub>	: BTB
M <sub>1b</sub>	: BCG
M <sub>1c</sub>	: BCP
M <sub>1d</sub>	: ARS
M <sub>2a</sub>	: SFNO
M <sub>2b</sub>	: MB
M <sub>2c</sub>	: MV
M <sub>3</sub>	: I <sub>2</sub> / PMAP – SAc
M <sub>4</sub>	: TA / PMAP – Cr(VI)
M <sub>5</sub>	: C – A
M <sub>6</sub>	: NQS
M <sub>7</sub>	: VN
M <sub>8</sub>	: NIN – AA
M <sub>9</sub>	: AP
M <sub>10</sub>	: INH
M <sub>11</sub>	: $\beta$ -Npt, H <sub>2</sub> O <sub>2</sub> -DNPH
M <sub>12</sub>	: NBS/PMAP-SAc
M <sub>13</sub>	: Haet – CAT
M <sub>14</sub>	: IO <sub>4</sub> <sup>-</sup> /MO VI/PMAP-SA

M <sub>15</sub>	:	NBS/CB
M <sub>16</sub>	:	CAT/GC
M <sub>17</sub>	:	MnO <sub>4</sub> <sup>-</sup> / FGFCF
M <sub>18</sub>	:	FC
M <sub>19</sub>	:	AM-H <sub>2</sub> SO <sub>4</sub>
M <sub>20</sub>	:	Fe <sup>3+</sup> / o-phenanthroline
M <sub>21</sub>	:	Fe <sup>3+</sup> / K <sub>3</sub> Fe(CN) <sub>6</sub>
M <sub>22</sub>	:	IO <sub>4</sub> <sup>-</sup> /MBTH
M <sub>23a</sub>	:	CL
M <sub>23b</sub>	:	CL-CH <sub>3</sub> CHO
M <sub>24a</sub>	:	SNP-Acetone
M <sub>24b</sub>	:	SNP-Hydroxyl amine

#### 4. Symbols:

$\lambda_{\max}$	:	Wavelength of maximum absorption
$\epsilon_{\max}$	:	Molar absorptivity
b	:	Slope
a	:	Intercept
S <sub>b</sub>	:	Standard deviation on slope
S <sub>a</sub>	:	Standard deviation on intercept
S <sub>c</sub>	:	Standard error on estimation
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

<b>%RSD</b>	<b>:</b>	<b>Percent Relative Standard Deviation</b>
<b>Fig</b>	<b>:</b>	<b>figure</b>
<b>Tab</b>	<b>:</b>	<b>Table</b>
<b>Cap</b>	<b>:</b>	<b>capsule</b>
<b>Inj</b>	<b>:</b>	<b>Injection</b>
<b>Syp</b>	<b>:</b>	<b>Syrup</b>
<b>Lab</b>	<b>:</b>	<b>Laboratory</b>
<b>Temp</b>	<b>:</b>	<b>Temperature</b>
<b>HPLC</b>	<b>:</b>	<b>High performance liquid chromatography</b>
<b>TLC</b>	<b>:</b>	<b>Thin layer chromatography</b>
<b>UV</b>	<b>:</b>	<b>Ultraviolet</b>
<b>MS</b>	<b>;</b>	<b>Mass Spectroscopy</b>
<b>IR</b>	<b>:</b>	<b>Infrared spectroscopy</b>
<b>VS</b>	<b>:</b>	<b>Visible spectroscopy</b>
<b>HPTLC</b>	<b>:</b>	<b>High performance thin layer Chromatography</b>
<b>TLC / MS</b>	<b>:</b>	<b>Thin layer Chromatography / Mass spectroscopy</b>