

# **APPENDIX**

## **ABBREVIATIONS, REAGENTS AND SYMBOLS**

### **1. Drugs used:**

Gemcitabine	:	GEMC
Aceclofenac	:	ACFN
Dorzolamide	:	DORZ
Fexofenadine	:	FEFD

### **2. Chemicals and Reagents used:**

SFNO	:	Safranin-O
MB	:	Methylene Blue
MV	:	Methylene Violet
4-AP	:	4-amino phenazone
INH	:	Isonicotinic acid hydrazide
PDAB	:	P-Dimethyl amino benzaldehyde
PDAC	:	P-Dimethyl amino cinnamaldehyde
SNP	:	Sodium Nitro Prusside
NH <sub>2</sub> OH	:	Hydroxyl amine
NIN or NH	:	Ninhydrin
DCQC	:	2,6-Dichloro Quinone-4-Chlorimide
HCl or H <sup>+</sup>	:	Hydrochloric acid
NaNO <sub>2</sub>	:	Sodium nitrite.
PLG	:	Phloroglucinol
RES	:	Resorcinol

<b>BCG</b>	:	<b>Bromocresol green</b>
<b>BCP</b>	:	<b>Bromocresol purple</b>
<b>MBTH</b>	:	<b>3-methyl-2-benzothiazolinone hydrazone</b>
<b>Fe(III)</b>	:	<b>Ferric chloride</b>
<b>4-AP</b>	:	<b>4-aminophenazone</b>
<b>PHH</b>	:	<b>Phenyl hydrazine hydrochloride</b>
<b>K<sub>3</sub>[Fe(CN)<sub>6</sub>]</b>	:	<b>Potassium ferricyanide</b>

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

<b>M<sub>1a</sub></b>	:	<b>BCP</b>
<b>M<sub>1b</sub></b>	:	<b>BCG</b>
<b>M<sub>2a</sub></b>	:	<b>SFNO</b>
<b>M<sub>2b</sub></b>	:	<b>MB</b>
<b>M<sub>2c</sub></b>	:	<b>MV</b>
<b>M<sub>3</sub></b>	:	<b>Isatin - H<sub>2</sub>SO<sub>4</sub></b>
<b>M<sub>4</sub></b>	:	<b>Xanthidrol - H<sub>2</sub>SO<sub>4</sub></b>
<b>M<sub>5</sub></b>	:	<b>Vanillin</b>
<b>M<sub>6</sub></b>	:	<b>PDAB</b>
<b>M<sub>7</sub></b>	:	<b>PDAC</b>
<b>M<sub>8</sub></b>	:	<b>Ninhydrin - Ascorbic acid</b>
<b>M<sub>9</sub></b>	:	<b>β-Naphthol, H<sub>2</sub>O<sub>2</sub>, 2,4-DNPH</b>
<b>M<sub>10</sub></b>	:	<b>4-AP</b>
<b>M<sub>11</sub></b>	:	<b>INH</b>
<b>M<sub>12</sub></b>	:	<b>NaNO<sub>2</sub>-phloglucinol</b>

$M_{13}$	:	NaNO <sub>2</sub> -resorcinol
$M_{14}$	:	MBTH-Fe (III)
$M_{15}$	:	4AP-K <sub>3</sub> [Fe(CN) <sub>6</sub> ]
$M_{16}$	:	DCQC
$M_{17}$	:	IO <sub>4</sub> <sup>-</sup> /PHH/[Fe(CN) <sub>6</sub> ] <sup>3-</sup>
$M_{18}$	:	CTC
$M_{19}$	:	DDQ
$M_{20}$	:	SNP -HA
$M_{21}$	:	HPLC for GEMC
$M_{22}$	:	HPLC for ACFN
$M_{23}$	:	HPLC for DORZ
$M_{24}$	:	HPLC for FEFD

#### 4.Symbols :

$\lambda_{\max}$	:	Wavelength of maximum absorption
$\epsilon_{\max}$	:	Molar absorptivity
b	:	Slope
a	:	Intercept
$S_b$	:	Standard deviation on slope
$S_a$	:	Standard deviation on intercept
$S_e$	:	Standard error on estimation
R	:	Correlation coefficient
°C	:	Degree Centigrade
M	:	Molar

G	:	Gram
µg/mcg	:	Microgram
ml	:	Millilitre
mg	:	Milligram
%	:	Percentage
% RSD	:	Percent relative standard deviation
>	:	Greater than
<	:	Less than
min	:	Minutes
hr	:	Hour
Vol	:	Volume
µl	:	Microlitre
µm	:	Micrometre
mm	:	Millimolar
Fig	:	Figure
Cap	:	Capsule
Inj	:	Injection
Tab	:	Tablet
Syp	:	Syrup
Lab	:	Laboratory
Temp	:	Temperature
HPLC	:	High performance liquid chromatography
TLC	:	Thin layer chromatography
UV	:	Ultra violet
MS	:	Mass Spectroscopy
IR	:	Infra red Spectroscopy

HPTLC	:	High performance thin layer chromatography
CGC	:	Capillary Gas Chromatography
CE-MS spectrometry	:	Capillary electrophoresis-Mass
CEC	:	Capillary electro chromatography
MLC	:	Micellar liquid chromatography
LC/TMS	:	Liquid chromatography/thermospray mass spectrometry
TLC/MS	:	Thermospray Liquid chromatography- Mass spectrometry