

British) (TLC) (Pharmacopoea, 2009

(Basavaiah and T- (Basavaiah and Krishnamurthy, 1998) , :
 ((III) (Revanasiddappa and Venna, 2008) Swamy , 2001)
 - N (Misiuik and Tarasiewicz, 1993) Basavaiah and Swamy, 2002)
 - 2 (Misiuik and Tarasiewicz, 1996) (IV) (Taha *et al.*,1983)
 .(Murthy and Seetharamappa, 2000) (Hassan *et al.*,1989)

(IV)

(Basavaiah , 2004)

S (Basavaiah and Krishramurthy ,1998)
 (El – Kerdawy *et al.*, 1993) (Basavaiah *et al.*,1999)
 (Bhongade and Kasture,1993) (Starczewska and Karpinska,1996) R
 .(Bhongade and Kasture,1993)

.(Singh *et al.*,1988) :
 (diphenylpicrylhydrazil Emara, 1992) (DPH)

DPH .(¹⁻ . 1000-50) 10

20 – 15 °60

-N .¹⁻ . 300 – 10

1

(Al-Talib and Al- . 25 25

(Yang *et al.*, 2003) Sabha, 2009)

(Farhadi and Shamsipur., 2003) DDQ

.(Koupparis *et al.*,1986)

-2 2

Shimadzu UV -160

-

1

.Hanna instruments pH 211

-

:

1-

50 ,

-

0.0050

100

(NDI)

(stock solution)

²-10 x 1.5 ,

-

3 (BDH)

0.1499

100

0.25

²-10 x 4.99

-2,2

-

5 (Fluka)

0.3904

50

25\

400 - 2.5

²-10 x 1.5

1

25

-2,2

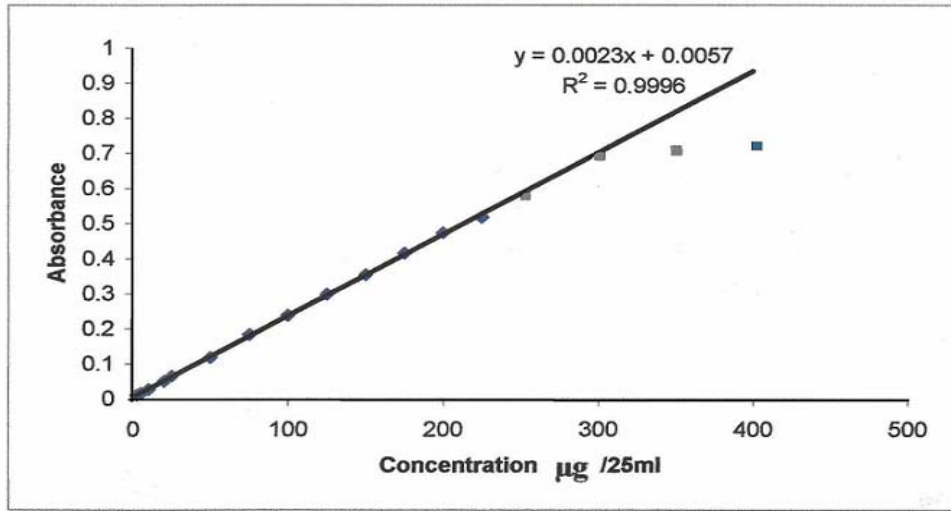
1

.....

521

[(1)]

.(/ 12.0 - 0.1)



: 1

(0.9996)

. 1- . 1- . . 10⁴ x 1.045

(²⁻ . 0.033)

(/ 50)

0.0050

0.035

5

5

5

100

1-

50

5

100

1-

50

1

50

50

1-

- 2,2

521

25

50

0.02

50

0.02

 $10^{-2} \times 1.5$

1

 $10^{-2} \times 4.9$

-2,2

1

521

3.3

.(1)

:1

mL of HCl 0.02 M	Absorbance	pH	mL of NaOH 0.02M	Absorbance	pH
0.0	0.125	3.30	0.0	0.125	3.30
0.5	0.120	3.04	0.25	0.122	3.34
1.0	0.115	2.88	0.5	0.122	3.40
1.5	0.110	2.77	1.0	0.118	3.90
2.0	0.110	2.70	2.0	0.110	4.2

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(2)

:2

No.	Component	Abs.	pH
B ₁	Formic acid / KOH	0.118	3.37
B ₂	Tartaric acid / NaOH	-0.029	3.33
B ₃	KH – Phthalate/HCl	Turbid	-----
B ₄	Glycine / HCl	0.114	3.33

0.118 :



(2)

(90,80,70,60,50)

1

50

30

1

25

15

()

10 -100

²-10 x 1.5

1

(0.9998)

- 2,2

-2,2

$10^{-2} \times 4.99$

1

125-10

.(3)

:3

mL of 2.2 - Bipyridyl solution, $4.99 \times 10^{-2} \text{ M}$	Absorbance/ μg of chlorpromazine HCl							r ²
	10	20	40	50	80	100	125	
0.5	0.026	0.047	0.072	0.089	0.118	0.142	0.155	0.9888
1.0	0.026	0.045	0.079	0.095	0.149	0.182	0.215	0.9998
1.5	0.020	0.039	0.077	0.097	0.156	0.192	0.246	0.9996
2.0	0.021	0.045	0.079	0.099	0.155	0.199	0.243	0.9992

(CPC) chloride Cetylpyridinium :

3×10^{-3}

(SDS) Sodium dodecyl sulphate

3×10^{-3}

3

% 1

Triton X-100

I

:

I = CPH + O + R , II = O + CPH + R , III = R + CPH + O , IV = O + R + CPH
 V = CPH + R + O , VI = R + O + CPH

.....

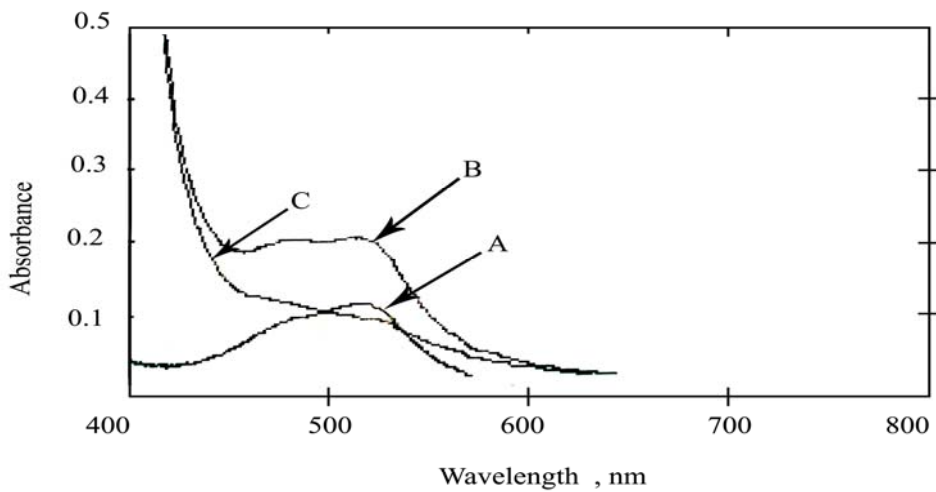
(80 - 50)

.(2)

:2

µg of chlorpromazine HCL	Absorbance / minute								
	0	5	15	25	35	45	60	90	120
50	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.118	0.120
80	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.180

25 / 50 (C) (B) (A) .(1)



25 / 50 :1 (B) (A) (C)

(3)

:3

µg of drug/25ml	Relative error* %	Relative Standard Deviation*
50	-1.66	1.37
80	-0.1	0.2
200	-0.21	0.18

*

20-2

(1000 - 100)

25/ 50

.(4)

:4

Excipient	Fold excess	Recovery%
Glucose	20	100.
Lactose	20	104
Gum Arabic	10	96.1
Starch	20	100.

:

(SDI)

50

Lab RENAUDIN

2/ 100

.....
%98

(5)

%100

:5

Parmaceutical preparations	Average Recovery%[*] (proposed method)
Largactil tablet(50mg) SDI	98.0
Largactil ampoule (100mg/2 ml) Lab RENAUDIN	100

*

(6)

الطيفية

: 6

Reagent	λ max(nm)	Linear range (ppm)	Molar absorptivity ($\text{L.mol}^{-1}.\text{cm}^{-1}$)	Recovery (%)	R.S.D (%)	Ref.
Chloramine -T	550 – 565	1.6-20		99.7 -101.2	\pm (0.9-5.2)	Issa <i>et al.</i> , 1978
Molybdoarsenic acid	525-540	4.0 - 47.2	(4.9 – 7.09) $\times 10^3$	98.4 – 99.4	\pm (0.92-1.46)	Ramappa <i>et al.</i> , 1980
4- Aminazobenzene With $\text{K}_2\text{Cr}_2\text{O}_7$	620	0.2 -20	1.88×10^4	99.49-101.63	0.62-1.35	Al-Talib and Jasim, 1996
Iron (III) with ferricyanide	700	0.1 – 8.0	(2.1 – 3.66) $\times 10^4$		1.12-1.4	Nagaraja <i>et al.</i> , 2000
Chloranilic acid	520	20 -150	(1.48 -1.75) $\times 10^3$	99.54-100.4	1.04-1.82	Basavaiah and Charan, 2002
N - Chlorosuccinimide	516.5-534.5	2.0 – 40	(5.34 -6.16) $\times 10^3$	98.31-100.84	1.21-3.81	Al – Talib and Al-Sabha, 2009
Iron (II) with 2,2'- Bipyridyl	521	2.5 – 300	1.045×10^4	98 – 100	0.2 – 1.37	Proposed method

(6)

- 2,2

.(Snell, 1978) 3 : 1

-2,2

521

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