

## Supplementary file 1

The medicine tests were conducted using the standardized IP 2014 protocol and for a few specific samples using IP 2010 with addendum 2012. Based on the drug property of some medicines, certain tests were not performed.

Supplementary file table 1: Comparative quality evaluation of Tablet Metformin(Metformin Hydrochloride IP 500 mg) sampled from different sources from private and government laboratories

Quality parameters	Sample Source										
	Government District Hospital		Private pharmacy: Most sold		Private pharmacy : Least expensive		Janatha bazar: Branded drug store		Janathabazar : Generic drug store		
	Private	Govt	Private	Govt	Private	Govt	Private	Govt	Private	Govt	
A) Identification											
1	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	
2	Complies		Complies		Complies		Complies		Complies		Complies
3	Complies		Complies		Complies		Complies		Complies		Complies
B) Uniformity of the weight	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	
C) Dissolution in percentage ( by UV-Not less than 75%)											
1	92.03	N/A	88.51	N/A	79.21	N/A	89.59	N/A	89.26	N/A	
2	91.00	N/A	85.00	N/A	88.49	N/A	82.64	N/A	91.53	N/A	
3	90.13	N/A	82.85	N/A	86.56	N/A	80.36	N/A	81.80	N/A	
4	88.84	N/A	87.77	N/A	83.30	N/A	78.63	N/A	79.78	N/A	
5	86.52	N/A	84.05	N/A	81.12	N/A	85.17	N/A	79.34	N/A	
6	84.42	N/A	86.16	N/A	84.64	N/A	83.36	N/A	84.46	N/A	
D) Assay	96.35	93.12	97.28	91.14	98.56	96.01	98.25	92.32	101.53	95.56	

Supplementary file table 2: Comparative quality evaluation of Tablet Glibenclamide (Glibenclamide IP 5 mg) sampled from different sources from private and government laboratories

Quality parameters	Sample Source									
	Government District Hospital		Private pharmacy: Most sold		Private pharmacy : Least expensive		Janatha bazar: Branded drug store		Janathabazar : Generic drug store	
	Private	Govt	Private	Govt	Private	Govt	Private	Govt	Private	Govt
A)Identification	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies
B)Average Weight	Complies	N/A	Complies	N/A	Complies	N/A	Complies	N/A	Complies	N/A
C)Disintegration test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Passed the test	N/A	Passed the test
D)Related Substance	N/A	Passed the test	N/A	Passed the test	N/A	Passed the test	N/A	Passed the test	N/A	Passed the test
E) Uniformity of content in percentages (by HPLC* - 85%-115%)										
1	111.15	Complies	108.23	Complies	91.70	Complies	107.86	Complies	112.40	Complies
2	111.73		111.76		96.27		95.75		107.56	
3	110.74		108.59		109.09		97.85		114.81	
4	113.20		109.48		98.96		110.46		98.44	
5	111.59		114.40		111.12		113.06		97.66	
6	111.66		110.42		108.52		113.26		110.41	
7	112.49		110.44		109.35		110.53		112.06	
8	112.10		107.85		113.84		113.16		110.18	
9	111.87		96.29		110.37		96.05		105.39	
10	99.71		85.85		110.08		111.13		105.30	
F)Assay	100.55	91.04	102.71	98.80	101.40%	102.80	102.96	97.40	104.09	89.40
G)Disintegration Time	40 secs	N/A	55 secs	N/A	50 secs	N/A	55 secs	N/A	50 secs	N/A

\*HPLC-High Pressure Liquid Chromatography.

\*NA: Test not performed. Result not available.

Supplementary file table 1:: Comparative quality evaluation of Tablet Atenolol (Atenolol IP 50 mg) sampled from different sources from private and government laboratories

Quality parameters	Sample source									
	Government District Hospital		Private pharmacy: Most sold		Private pharmacy : Least expensive		Janatha bazar: Branded drug store		Janathabazar : Generic drug store	
	Private	Govt	Private	Govt	Private	Govt	Private	Govt	Private	Govt
A) Identification										
A	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies
B	Complies		Complies		Complies		Complies		Complies	
B)Uniformity of the weight	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits	Within limits
C)Disintegration time	2 min 05 sec	Passed the test	1 min 50 sec	Passed the test	5 min 10 sec	Passed the test	2 min 15 sec	Passed the test	1 min 55 sec	Passed the test
D) Assay	100.06	96.78	102.78	96.78	98.56	90.60	100.77	96.22	104.93%	90.58

Supplementary file table 4: Comparative quality evaluation of Tablet Amlodipine Besylate(Amlodipine BesylateIP 5 mg) sampled from different sources from private and government laboratories

Quality parameters	Sample source									
	Government District Hospital		Private pharmacy: Most sold		Private pharmacy : Least expensive		Janatha bazar: Branded drug store		Janathabazar : Generic drug store	
	Private	Govt	Private	Govt	Private	Govt	Private	Govt	Private	Govt
A)Identification	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies	Complies
B)Average weight	Complies	N/A	Complies	N/A	Complies	N/A	Complies	N/A	Complies	N/A
C) Dissolution in percentage (by UV- Not less than 75%)										
1	112.10	Passed	108.11	Passed	111.90	Passed	104.77	Passed	96.54	Passed
2	103.67	the test	102.61	the test	105.58	the test	105.05	the test	98.05	the test
3	111.85		107.50		113.48		103.55		94.39	
4	106.85		105.05		105.83		104.55		96.46	
5	103.34		103.14		110.92		112.34		95.89	
6	106.44		107.54		112.67		113.12		96.34	
D)Uniformity of the content	Complies		Passed the test		Complies		Passed the test		Complies	
E)Assay	96.54	106.6	107.82	109.6	102.40	109.2	104.91	108.4	93.12	91.4