Experiment No 1

Tablet formulation & powder characterization

Excipient Chemicals Required.

Lactose – 37.5 g
HPMC – 25.8 g.
Talc – 1.25 g.
magnesium stearate – 0.625 g.

Punch – 13 Flat
Diameter – 13 mm
Lower – 6.5 mm
punch height

Batch B2

No. of Tablet	Weight (g)	Hardness (N)	Thickness (mm)
B1	2.41		
T1	0.48		
T2	0.47	?	?
T3	0.50		
T4	0.47		
T5	0.49		
B2	2.41		
T1	0.48	16N	3.62
T2	0.48	16N	3.51
T3	0.48	16N	3.49
T4	0.48	17N	3.60
T5	0.49	19N	3.61
B3	2.38		
T1	0.48	21N	3.15
T2	0.47	23N	3.12
T3	0.48	25	3.09
T4	0.48	23	3.03
T5	0.47	25	3.03

Batch Tablet	Weight	Hardness	Thickness
B4	2.48		
T1	0.48	43N	3.16
T2	0.48	42N	3.14
T3	0.47	42N	3.18
T4	0.47	43N	3.18
T5	0.48	43N	3.20
B5	2.47		
T1	0.48	60N	3.45
T2	0.52	54N	3.43
T3	0.49	55N	3.23
T4	0.48	54N	3.3
T5	0.50	56N	3.6

0.05

$\frac{9.68}{20} = 0.479$

~~Tablet~~ Tab

Hardness

B1 Tablets Thickness Should Not Be Affected Much By The less Compression Force.

A group.

Chemicals

Lactose - 50.g
HPMC - 12.5g.
Talc - 1.25g
magnesium stearate - 0.625g.

Batch A1 Total weight - 2.35

No of Tablet	(g) Weight	(N) Hardness	(mm) Thickness
01	0.47	0	4.00
02	0.46	0	3.85
03	0.48	0	4.13
04	0.47	0	3.80
05	0.48	0	3.89

Batch A2 Total weight - 2.46

1	0.49	8	3.15
2	0.46	8	3.38
3	0.51	8	3.30
4	0.49	8	3.50
5	0.51	8	3.38

Batch A3 Total weight - 2.34

1	0.46	22	2.25
2	0.49	22	2.27
3	0.47	26	2.74
4	0.48	27	2.82
5	0.47	24	2.88

Total weight - 2.58

Batch A5

1	0.50	44	2.35
2	0.54	42	2.27
3	0.52	42	2.74
4	0.49	46	2.82
5	0.52	42	2.85

Batch A5 Total weight 2.58

1	0.50	67	3.35
2	0.54	62	3.36
3	0.52	62	3.47
4	0.49	69	3.27
5	0.52	61	3.48

Batch A8 Total weight 2.37

1	0.48	22	3.3
2	0.48	26	3.40
3	0.48	25	3.41
4	0.45	22	2.71
5	0.46	25	2.80

Batch A13. Total weight 2.37

1	0.48	30	2.27
2	0.47	27	2.11
3	0.46	30	2.25
4	0.47	29	2.15
5	0.48	30	2.73

2.35
2.27
2.74
.82
2.88

3.35
3.36
3.47
3.27
3.48

3.3
3.40
3.41
2.71
2.80

2.27
2.11
2.5
2.15
2.73

Bullets A/B	Total weight 2.47		
1	0.49	26	3.39
2	0.50	30	3.39
3	0.48	30	3.28
4	0.47	28	2.78
5	0.46	26	2.80