

PHARMA APPLICATION LEAFLET

#17/12/006

Magaldrate, Direct Compression

Page 1/4

Abstract

Magaldrate is a common antacid drug which is used to treat duodenal and gastric ulcers, esophagitis from gastro esophageal reflux. It is available in the form of oral suspension, chewable tablets and it is also available with simethicone combination.

It is hydroxymagnesium aluminate complex that is converted rapidly in gastric acid to $Mg(OH)_2$ and $Al(OH)_3$, which are absorbed poorly and thus provide a sustained antacid effect.

Its overdose may lead to increment of defecation and reduction of infeces consistence.

Typical dose of Magaldrate is 800 mg. The below formula is taken with small dose 300 mg. **HiCel™ CE-15** is combination of Microcrystalline Cellulose and Guar Gum. It is used as taste masker. It masks the bitter taste of API by making it mouth feel and gives creamish taste. It gives batter patient compliance.

Ingredient composition

Sr.No.	Name of ingredients	mg/tablet	Contribution (%)
1.	Magaldrate	300	50
2.	HiCel™ CE 15	150	25
3.	Crospovidone	10	1.67
4.	Mannitol	65	10.83
5.	Sucrose	38	6.33
6.	Lactose Monohydrate	35	5.83
7.	Purified Talc	02	0.33
Total		600	100

Procedure

HiCel™ SMCC 90M, HiCel™ CE 15, Mannitol and Sucrose were mixed for 15 minutes then added Magaldrate and then purified talc. Mixed them well and then added peppermint flavor and mixed for 10 minutes. The powder mixture was ready for direct compression.

PHARMA APPLICATION LEAFLET

#17/12/006

Magaldrate, Direct Compression

Page 2/4

Equipment

Sr.No.	Name of equipment	Application	Model/ make
1.	Tablet punching machine	Tablet Manufacturing	10 station, D tooling/ Proton mini press
2.	Weighing Balance	Weighing	MS204S/A01/ Mettler Toledo
3.	Tablet Hardness Tester	Hardness Test	TH 1050 M/ Labindia
4.	Tablet Friability Tester	Friability Test	FT1020 / Labindia
5.	Tablet Disintegration Tester	Disintegration Test	DT 1000 / Labindia

Tablet Characteristics

Sr.No.	Name of Parameter	Result
1.	Tablet description	Concave, Round, white color
2.	Tablet weight (n=10)	600 mg
3.	Tablet Hardness (n=10)	45.4 N
4.	Thickness (n=10)	5.00 mm
5.	Diameter	12.50 mm
6.	Friability (n=10)	<1 %
7.	Disintegration time (n=06)	27 Sec

PHARMA APPLICATION LEAFLET

#17/12/006

Magaldrate, Direct Compression

Page 3/4

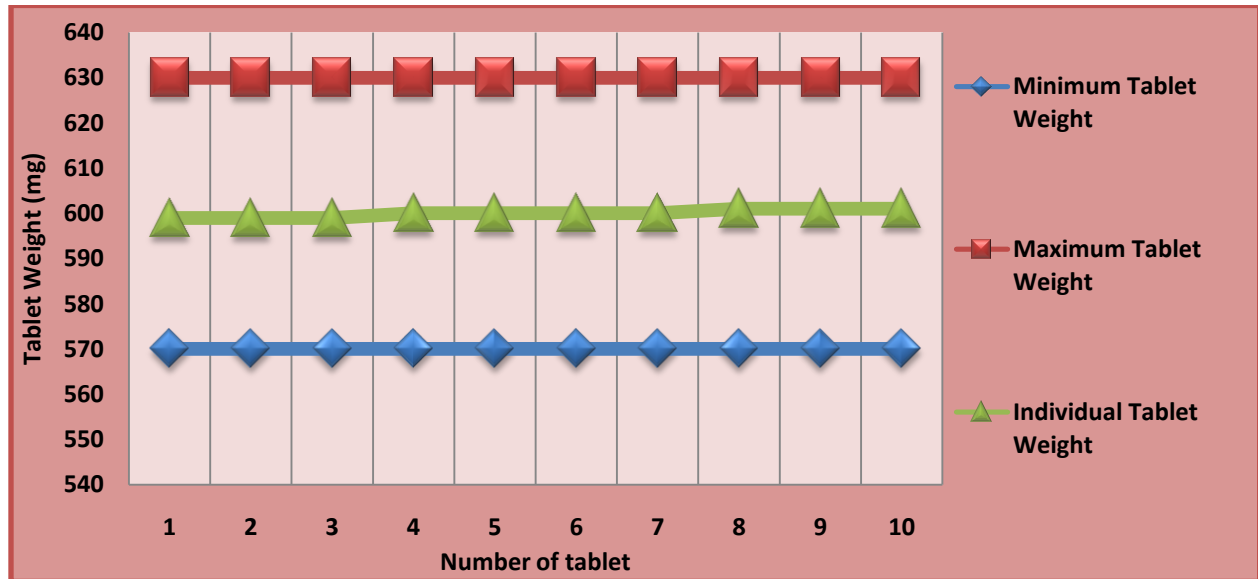


Fig.1. Weight Uniformity of Magaldrate tablet

PHARMA APPLICATION LEAFLET

#17/12/006

Magaldrate, Direct Compression

Page 4/4

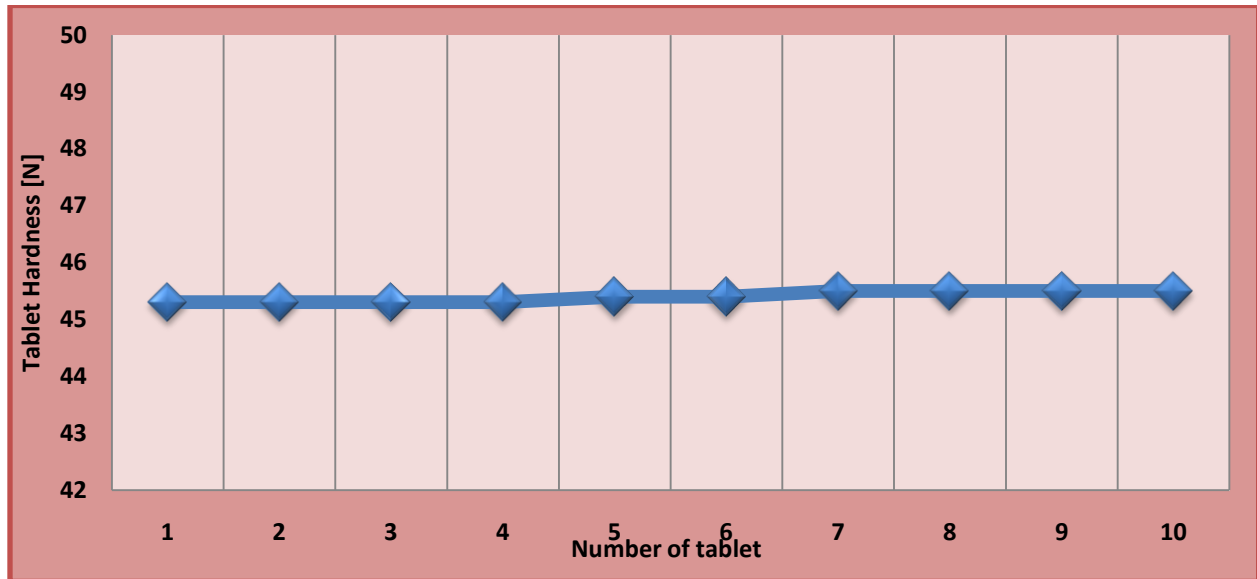


Fig.2. Hardness Variation of Magaldrate tablet

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