

PHARMA APPLICATION LEAFLET

#18/05/018

Magaldrate dispersible Tablet, Direct Compression

Page 1/3

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 $Al(OH)_2$, 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 tablet is 480mg and 540 mg. We have manufactured Magaldrate dispersible tablet 480 mg using HiCel™ LP200 (microcrystalline cellulose). HiCel™ LP200 provides excellent flow to mixture and gives good tablet profile in term of tablet hardness disintegration time and weight uniformity

Ingredient composition

Sr.No.	Name of ingredients	mg/tablet	Contribution (%)
1.	Magaldrate	480.0	60.00
2.	HiCel™ LP200 (Microcrystalline cellulose)	275.0	34.37
3.	Croscarmellose Sodium	40.0	5.00
7.	Purified Talc	5.0	0.63
Total		800	100

Procedure

HiCel™ LP200 and croscarmellose sodium were mixed for 5-10 minutes then added Magaldrate and mixed the mixture for 15-20 minutes then purified talc for lubrication and again mix the mixture for 5 mints. The powder mixture was ready for direct compression.

PHARMA APPLICATION LEAFLET

#18/05/018

Magaldrate dispersible Tablet, Direct Compression

Page 2/3

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
6.	Dissolution Apparatus	Percentage of drug release	DS 8000 / Labindia
7.	UV Spectrophotometer	Absorbance	1800/ Shimadzu

Tablet Characteristics

Sr.No.	Name of Parameter	Result
1.	Tablet description	Concave, Round, white color
2.	Tablet weight (n=10)	800 mg
3.	Tablet Hardness (n=10)	95.0 N
4.	Thickness (n=10)	3.5 mm
5.	Diameter	15 mm
6.	Friability (n=10)	<1 %
7.	Disintegration time (n=6)	12 Sec
8.	Dissolution Time (n=6)	

PHARMA APPLICATION LEAFLET

#18/05/018

Magaldrate dispersible Tablet, Direct Compression

Page 3/3

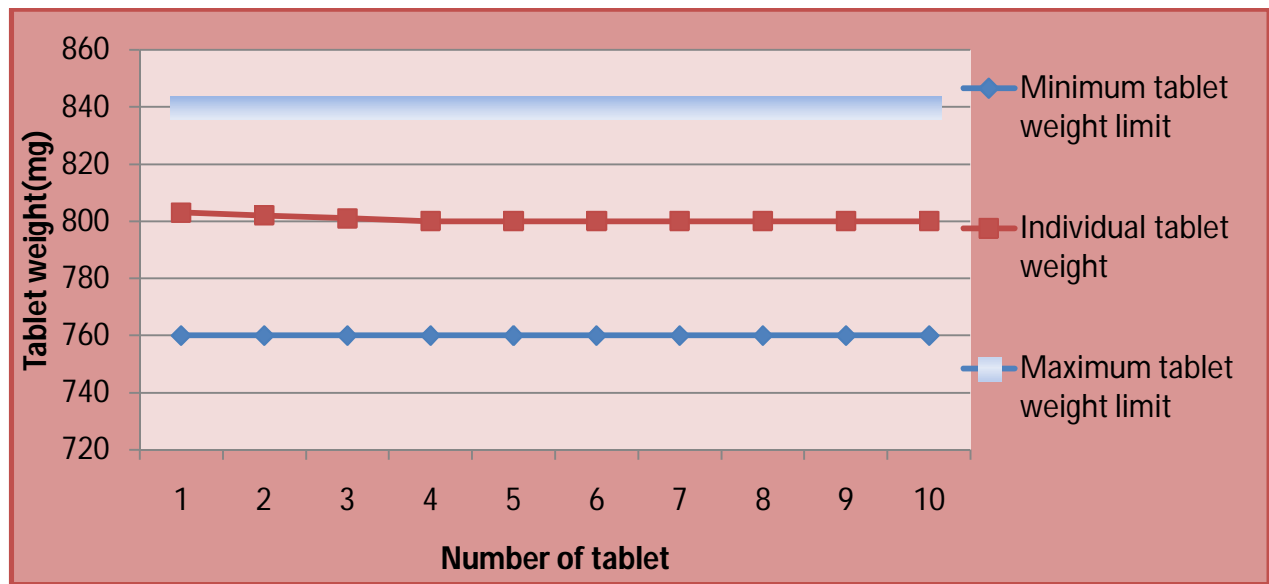


Fig.1. weight uniformity of Magaldrate Dispersible tablet

Summary

- HiCel™ LP200 provides excellent flow to mixture.
- It gives very good tablet hardness with less disintegration time.

Disclaimer: The information provided in this brochure is based on through research and is believed to be completely reliable. Application suggestions are given to assist our customer, but are for guidance only. Circumstances in which our material is used vary and are beyond our control. Therefore, we cannot assume any responsibility for risk liabilities, which may result from the use of this technical, advised.