

4282-058

Magaldrate Chewable Tablet Direct Compression

Key Words: Magaldrate, Chewable Tablet,
Direct Compression
JRS Products: EMDEX®, PRUV®

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Summary

Magaldrate is an antacid for the treatment of gastric ulcers and gastroesophageal reflux. It belongs to the group of the sheet silicate antacids which only work in media with a pH value below 5. The chemical structure is $Al_5Mg_{10}(OH)_{31}(SO_4)_2 \times H_2O$. Magaldrate is available in chewable tablets or suspension; it is not soluble in water.

The typical dosage of Magaldrate is 800 mg. The following formulation is for a 400 mg chewable tablet. The smaller concentration of API confers improved mouth-feel; patients can simply chew two tablets to achieve an 800 mg dosage.

Formulation

	Active content [mg]	mg/tablet	Contribution [%]
Magaldrate	400.0	400.0	53.3
EMDEX® (Dextrates)		225.0	30.0
Xylitol		112.5	15.0
Aspartame		3.0	0.4
Peppermint flavor		2.1	0.3
PRUV® (Sodium Stearyl Fumarate)		7.5	1.0
Total		750.0	100.0

Procedure

Blending:

All excipients, except **PRUV®**, were blended for 15 minutes. Afterwards, **PRUV®** was added to the blend and mixed for an additional 3 minutes. The powder mixture was ready for direct compression.

Equipment:

Tablet Press:	Kilian Pressima
Turbula Mixer:	Type T2A
Hardness Tester:	Schleuniger Tablet Tester 6D

Tablet Characteristics

Compaction Force:	5 kN
Tablet Diameter:	13 mm
Tablet Weight:	750 mg
Crushing Strength:	70 N

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