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Peppermint Oil Chewable Tablet Direct Compression

Key Words: Peppermint Oil Tablet,
Chewable Tablet, Oily Active,
Low Dosage, Direct Compression
JRS Products: EMDEX®, PRUV®

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Summary

In low dosages, Peppermint Oil is used as a breath freshener without medicinal effects. In higher dosages, it works as an antispasmodic agent and can be used to relieve pain,

especially stomach pain. Peppermint oil has a high menthol content. The porosity of **EMDEX®** binds the oil and keeps it in the tablet. The following formulation is a tablet for breath refreshment; there is no medicinal effect.

Formulation

	Active content [mg]	mg/tablet	Contribution [%]
Peppermint Oil (Caesar & Lorentz G 474-1)	6.58	6.58	3.29
EMDEX® (Dextrates)		183.70	91.88
Sorbitol (Neosorb)		7.90	3.99
PRUV® (Sodium Stearyl Fumarate)		1.60	0.84
Total		200.0	100.0

Procedure

Blending:

The Peppermint Oil was dispersed onto the **EMDEX®** and blended for about 15 minutes. Then Sorbitol was added and mixed for about 10 minutes. As the last step **PRUV®** was filled in and mixed for 3 minutes. The powder mixture was ready for direct compression.

Taste:

The taste depends mainly on the quality of the peppermint oil. Quantities of peppermint oil per dosage may vary. Adding 0.15 % of vanillin can soften the sharp taste of the peppermint.

Equipment:

Tablet Press:	Korsch EK 0, 8 mm punch
Turbula Mixer:	Type T2A
Hardness Tester:	Schleuniger 2E

Tablet Characteristics

Tablet Weight:	200 mg
Diameter:	8 mm
Compaction Force:	25 kN
Crushing Strength:	70 N

Disclaimer: The information provided is based on thorough research and is believed to be completely reliable. Application suggestions are given to assist our customers, 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 risks or liabilities, which may result from the use of this technical advice.