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Phloroglucinol / Trimethylphloroglucinol Direct Compression

Key Words: Trimethylphloroglucinol, Phloroglucinol, Poor Flowability, Multi Dosage, Direct Compression
JRS Products: PROSOLV® SMCC 90, EMDEX®, VIVASOL®, PRUV®

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Summary

Phloroglucinol and Trimethylphloroglucinol are naturally occurring polyphenols often used in combination as an antispasmodic to relieve symptoms of gastrointestinal

disorders. Both APIs exhibit poor flow and are not readily compressible. The following direct compression formulation overcomes these difficulties.

Formulation

	Active Content	[mg]/tablet	Contribution [%]
Phloroglucinol	80.0	80.0	16.0
Trimethylphloroglucinol	80.0	80.0	16.0
PROSOLV® SMCC 90 (Silicified Microcrystalline Cellulose)		215.0	43.0
EMDEX® (Dextrates)		108.0	21.6
VIVASOL® (Croscarmellose Sodium)		10.0	2.0
PRUV® (Sodium Stearyl Fumarate)		7.0	1.4
Total		500.0	100.0

Procedure

Blending:

All substances, except **PRUV®**, were blended for 30 minutes in a turbula powder blender. The lubricant was added and the powder was mixed in a V-blender for another 3 minutes. The powder mixture was ready for direct compression.

Equipment:

Tablet Press	Korsch EK 0
Turbula Mixer	Type T2A
Hardness Tester	Schleuniger 6D

Tablet Characteristics

Tablet Weight:	500 mg
Tablet Diameter:	13 mm
Compaction Force:	20 kN
Crushing Strength:	100 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.