

4282-060

Key Words: Paracetamol, Good Flowability, Direct Compression

Paracetamol (Acetaminophen) Crystalline Grade Direct Compression

JRS Products: PROSOLV® EASYtab SP

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Summary

Bulk acetaminophen used in manufacturing is available in different grades of quality. Crystalline grades are optimally compressible, whereas amorphous grades are poorly compressible. The following formulation combines crystalline

acetaminophen with **PROSOLV® EASYtab SP** in a typical 500 mg dosage.

Formulation

	Active content [mg]	mg/tablet	Contribution [%]
Paracetamol (Acetaminophen)	500.0	500.0	62.5
PROSOLV® EASYtab SP		300.0	37.5
Total		800.0	100.0

Procedure

Blending:

The API was blended with **PROSOLV® EASYtab SP** for 15 minutes. The powder mixture was ready for direct compression.

Equipment:

Tablet Press:	Korsch EK 0
Turbula Mixer:	Type T2A
Hardness Tester:	Schleuniger Tablet Tester 6D
Disintegration Tester:	Pharmatest PTZ

Tablet Characteristics

Compaction Force:	17 kN
Tablet Diameter:	13 mm
Tablet weight:	800 mg
Crushing Strength:	80 N
Friability:	1.0 %
Disintegration Time:	15 s

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