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Citramon Chewable Tablet Direct Compression

Key Words: Multi Dosage, Chewable Tablet, Acetylsalicylic Acid, Paracetamol, Caffeine, Direct Compression
JRS Products: EMDEX®, PRUV®

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Summary

Citramon is a combination of Acetylsalicylic Acid and Paracetamol, two of the commonly used pain relief actives world-wide. The combination with Caffeine is often found in many headache and cold medicinal compositions. Most of the

formulations on the market are made with Microcrystalline Cellulose. We developed a direct compression formulation with water soluble matrix using **EMDEX®** as a binder and **PRUV®** as a lubricant.

Formulation

	Active content [mg]	mg/tablet	Contribution [%]
Acetylsalicylic acid	240.0	240.0	30.19
Paracetamol	200.0	200.0	25.16
Caffeine	30.0	30.0	3.77
EMDEX® (Dextrates)		292.0	36.73
Cacao Powder		20.0	2.52
Citric Acid		5.0	0.63
PRUV® (Sodium Stearyl Fumarate)		8.0	1.00
Total		795.0	100.0

Procedure

Blending:

All substances except **PRUV®** were blended for 15 minutes. **PRUV®** was added and the powder was mixed for another 3 minutes. The powder mixture was ready for direct compression.

Equipment:

Tablet Press	Korsch EK 0, instrumented
Turbula Mixer:	Type T2A
Hardness Tester	Schleuniger 6D
Disintegration Tester	Pharmatest Standard PTZ
Friability Tester	Pharmatest Standard PTF

Tablet Characteristics

Tablet Weight:	795 mg
Tablet Diameter:	13 mm
Compression Force:	20 kN
Crushing Strength:	90 N
Friability	0.8 %

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.