4282-067

Key Words: Valsartan, Poor Flowability, Poor Compactibility, Direct Compression
JRS Products: PROSOLV® SMCC HD 90, VIVASTAR® P, PRUV®

Valsartan
Direct Compression

Summary

Valsartan is an angiotensin II antagonist for hypertensive treatment. For many patients, it serves as an alternative to beta-blockers. Common dosages of valsartan are 80 and 160 mg per unit.

There are different qualities of valsartan available. The following formulation was done with a very amorphous, poor-flowing powder.

Formulation

	Active content [mg]	mg/tablet	Contribution [%]
Valsartan	80.0	80.0	50.0
Colloidal Silicone Dioxide		1.1	0.7
PROSOLV® SMCC HD 90 (Silicified Microcrystalline Cellulose)		72.0	45.0
VIVASTAR® P (Sodium Starch Glycolate)		5.3	3.3
PRUV® (Sodium Stearyl Fumarate)		1.6	1.0
Total		160.0	100.0

Procedure

Blending:

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

Equipment:	
Tablet Press:	Kilian Pressima, 10 mm punch
Turbula Mixer:	Type T2A
Hardness Tester:	Schleuniger Tablet Tester 6D

Tablet Characteristics

Compression Force:	13.5 - 14.5 kN
Tablet diameter:	10 mm
Tablet weight:	160 mg
Crushing Strength:	120 - 130 N
Disintegration Time:	120 s

WORLDWIDE HEADQUARTERS
JRS PHARMA GMBH & CO. KG
73494 Rosenberg (Germany)
Phone: + 49 (0) 7967 / 152 312
Fax: + 49 (0) 7967 / 152 345

ExcipientsService@jrspharma.de
www.jrs.de

Customer Service: +49 (0) 7967 / 152 312

www.jrspharma.com