

# 4282-004

**Key Words:** Boswellia Serrata, Botanical Extract, Sticky Active, High Dosage, Direct Compression  
**JRS Products:** PROSOLV® SMCC HD 90, PRUV®

## Boswellia Serrata Direct Compression

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### Summary

Boswellia has been used historically for various inflammatory conditions, such as arthritis. It is a gum resin, cohesive in nature and, consequently, poorly flowing and poorly compactable. Due to its physical characteristics, Boswellia is generally granulated prior to tablet manufacture.

**PROSOLV® SMCC HD 90** confers binding properties that allow granulated Boswellia to be formulated into a directly compressible tablet.

### Formulation

	Active content [mg]	mg/tablet	Contribution [%]
Boswellia extract	200.0	200.0	49.75
<b>PROSOLV® SMCC HD 90</b> (Silicified Microcrystalline Cellulose)		200.0	49.75
<b>PRUV®</b> (Sodium Stearyl Fumarate)		2.0	0.50
Total		402.0	100.0

### Procedure

#### Blending:

**PROSOLV® SMCC HD 90** and **PRUV®** were dispensed to the correct masses and transferred to a Patterson-Kelly twin-shell V-blender. Boswellia was sieved through a 20 mesh sieve and transferred into the V-blender. The powders were blended for 5 minutes. The powder mixture was ready for direct compression.

#### Equipment:

Blender:	Patterson-Kelly twin-shell V-blender
Tablet Press:	Korsch PH-106 instrumented rotary tablet press
Hardness Tester:	Erweka TBH-30
Disintegration Tester:	Erweka ZT-62
Friability Tester:	Erweka TA-3

### Tablet Characteristics

Tablet Weight:	400 mg
Compaction Force:	15 kN
Crushing Strength:	140 N
Disintegration Time:	225 s

**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.