

# 4282-047

## Glucosamine Effervescent Tablet Direct Compression

**Key Words:** Glucosamine HCl, High Dosage, Direct Compression, Effervescent Tablet  
**JRS Products:** EMDEX®, PRUV®

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### Summary

Glucosamine is an amino sugar produced naturally by the body. It is found in cartilage and other connective tissues, where it helps these tissues retain water and thus serve more efficiently as shock absorbers between the bones that meet at

the joints. Glucosamine supplements are commonly taken (often in conjunction with chondroitin) to ease symptoms of osteoarthritis.

### Formulation

	Active content [mg]	mg/tablet	Contribution [%]
Glucosamine HCl	1,000.0	1,203.5	30.24
<b>EMDEX®</b> (Dextrates)		1,546.7	38.86
Citric Acid Anhydrous		521.4	13.10
Sodium Hydrogen Carbonate		573.1	14.40
Aspartame		75.6	1.90
Strawberry Flavor		39.8	1.00
<b>PRUV®</b> (Sodium Stearyl Fumarate)		19.9	0.50
Total		3,980.0	100.0

### Procedure

#### Blending:

All ingredients except the lubricant were blended with a V-blender for 30 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
Turbula Mixer:	Type T2A
Hardness Tester:	Schleudiger 6D

### Tablet Characteristics

Tablet Weight:	3,980 mg
Tablet Diameter:	25 mm
Compaction Force:	21 kN
Crushing Strength:	100 N
Disintegration Time:	2 min

**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.