

4282-009

Key Words: Ginkgo Biloba, Sticky Active, Direct Compression

Ginkgo Biloba Direct Compression

JRS Products: PROSOLV® SMCC 90, EMCOSOY®, PRUV®

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Summary

Ginkgo Biloba extract is a poorly flowing, poorly compressible herbal extract used to enhance short-term memory. It can be directly compressed using **PROSOLV® SMCC 90** due to the excipient's enhanced flow, compaction, and excellent active

loading properties. Tablet disintegration is achieved using **EMCOSOY®**, a naturally derived soy polysaccharide disintegrant.

Formulation

	Active content [mg]	mg/tablet	Contribution [%]
Ginkgo Biloba Extract	60.0	60.0	46.2
PROSOLV® SMCC 90 (Silicified Microcrystalline Cellulose)		60.6	46.6
EMCOSOY® (Soy Polysaccharides)		6.0	4.6
Talcum		3.0	2.3
PRUV® (Sodium Stearyl Fumarate)		0.4	0.3
Total		130.0	100.0

Procedure

Blending:

Ginkgo Biloba extract and **PROSOLV® SMCC 90** were mixed for 10 minutes. Afterwards **EMCOSOY®** and Talcum were added to the blend and mixed for further 10 minutes. In the final step **PRUV®** was added and mixed for a further 3 minutes. The powder mixture was ready for direct compression.

Equipment:

Blender:	Patterson-Kelly 2 qt. twin-shell V-blender
Tablet Press:	Korsch PH-106 rotary tablet press
Hardness Tester:	Erweka TBH-30
Disintegration Tester:	Erweka ZT-62

Tablet Characteristics

Tablet Weight:	130 mg
Compression Force:	12 kN
Crushing Strength:	200 N
Tablet Disintegration Time:	180 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.