



## **Development of Composition and Technology for the Drug Based on Milk Thistle Oil**

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**Abstract** The work is devoted to development of composition and technology for new hepatoprotective phytomedicine on the basis of Milk Thistle oil in the dosage form of liquid filled hard gelatinous capsules under conventional trade name "Silycetin". In the work process of condensed gas (Freon) extraction of Milk Thistle seeds has been investigated. The manufacturing technology for fat oil from the given crude drug has been developed. Research for the main quality parameters of the oil obtained in comparison with Milk Thistle oil traditionally produced have been carried out. The composition and technology of quercetin suspension in thistle oil have been theoretically and experimentally proved, its sedimentation stability and rheological characteristics have been investigated, and techniques for quality control of the suspension have been developed. For the first time the composition and technology for the complex hepatoprotective phytodrug "Silycetin" in the dosage form of sealed solid gelatinous capsules filled with quercetine suspension in Milk thistle oil have been developed.. Pharmacological activity of "Silycetin" is 1.3-1.4 times stronger than of existing phytodrugs based on Milk Thistle (*Silybum marianum*).

**Key words:** *technology, "Silycetin" (Silycetinum), suspension, liquid filled capsules, pharmaceutical aids, extraction, freons, Milk Thistle (Silybum marianum)*

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