

PROSPECTS OF DEVELOPMENT OF NEW DRUGS BASED ON *COMARUM PALUSTRE*

Fakih Mohamad, Yudina Yu. V.

The National University of Pharmacy, Kharkiv, Ukraine

m.a.fakih@live.com

yulia_yudina78@mail.ru

Comarum palustre is a source of preparation of medicines. The herb contains tannins, flavonoids, volatile oil, gums, organic acids, vitamin C, and various microelements such as phosphorus, potassium, magnesium, copper. *Comarum palustre* (Marsh Cinquefoil) is astringent, anti-fever, antiseptic, styptic, antiviral, anesthetic, diaphoretic, antiphlogistic and wound healing. It can be useful for articular disorders, internal bleeding, haemorrhoids, as astringent for diarrhea, as cholagogue and diuretic, can also be used externally for wounds and mouth inflammations. *Comarum palustre* decoction is used as throat rinsing while tonsillitis and as a mouthwash for oral inflammations and dental bleeding. A diversity of the pharmacological properties of *Comarum palustre* in combination with the activity of biologically active compounds suggests that a range of its dosage forms should be extended.

In our work we investigated the process of extraction of *Comarum palustre* herb by pressurized solvent extraction (PSE) and also developed a technology for obtaining of *Comarum palustre* tincture using Timatic Micro of 0,5 l.

Completeness and speed of extraction of the active ingredients from the herbal raw material depend on technological properties of the material, difference in the concentrations, time of extraction, the nature of extragent and of the other factors which should be considered in the extraction process. Was studied effect of extraction time, number of working cycles, polarity of extragent on quantitative and qualitative characteristics of extract. Were found optimal parameters of process conducting: extragent - alcohol 40%, pressure - 5 atm, number of working cycles 60, extraction time - 7 h. At such conditions was observed maximal yield of extractive substances – 17%. Next stage of our research will be studying of chemical compose of extracts and development of semisolid preparations with obtained extract.