

body, improving intestinal peristalsis and peripheral circulation. Its most valuable property is the ability to clean organisms from harmful substances (radioactive elements, pesticides and ions of toxic metals).

Due to its functional properties, pectin is also widely used in the pharmaceutical industry. The health benefits of pectin are quite obvious, since its enveloping and binding properties have a beneficial effect on the mucous membranes of the gastrointestinal tract. In peptic ulcers, pectin acts as a mild anti-inflammatory and analgesic natural remedy. Pectin, due to their ability to form insoluble compounds with heavy metals and radionuclides, can be an important functional additive that has a radioprotective and detoxifying effect on the body, so the task of technological research to increase the detoxification and radioprotective abilities of pectin is quite timely. This problem can be solved by expanding the range and volume of food production using low esterified pectin.

### **Relevance of creating suppositories with enalapril maleate**

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According to statistics, in recent years, mortality from cardiovascular diseases is 64.3%. Cardiovascular diseases are a group of diseases associated with the problem of the circulatory system, which includes arterial hypertension (AH) and coronary heart disease (CHD): angina and myocardial infarction.

Hypertension (AH) is a disease of the cardiovascular system characterized by an increase in blood pressure, systolic blood pressure (SBP) above 120 mm Hg and diastolic blood pressure (DBP) above 80 mm Hg.

If the high blood pressure is not treated in advance, this pathology can lead to the development of myocardial infarction, stroke, renal or heart failure.

At the initial stage of hypertension, treatment can be started with the help of non-drug therapy, if it becomes ineffective, then the treatment with the use of hypotensive drugs begins. We have found that among the hypotensive drugs available

to the population of Ukraine there is a drug from the group of angiotensin-converting enzyme inhibitors (ACEI) enalapril.

Among the dosage forms of enalapril presented on the Ukrainian pharmaceutical market, there are no suppositories with enalapril maleate of domestic production, which gives impetus to the creation of new medicinal products.

Therefore, the development of the composition and introduction into the production of such a drug can increase the effectiveness of hypertension treatment, as well as increase the number of domestic drugs in the pharmaceutical market of Ukraine.

### **Development of biomaterials for use in construction**

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In our time, there is a growing need to find environmentally friendly building materials for the construction industry, as we face challenges such as global warming, the rapid depletion of natural resources and fossil fuels. The solution to this problem is the development of biomaterials.

The term «biological-based material» is defined as a material whose one or more components are grown on the basis of sustainable development and are fully renewable. Such materials offer solutions to the global waste problem and are an essential component for a cleaner, more sustainable future.

The exceptional ability of mushrooms to process organic substances attracts attention in bioeconomy. According to the latest available studies, it has been demonstrated that mycelium biocomposites mixed with other materials obtained from biological processes, such as plant extracts or agricultural waste, are an alternative option for the production of various materials that may be useful in the construction industry, design materials or food industry.