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Microfiltration polyamide membranes for processes of the sanitary-virologic control of water

© **Alexander V. Tarasov**,[2]* **Yuri A. Fedotov**,[2]* **Sergey A. Lepeshin**,[2]* **Yuri T. Panov**,[1+] **Cyril V. Okulov**,[1] and **Anastasia I. Vdovina**[1]

[1] *Department of polymer materials. Vladimir state university. Gorkiy St., 87. Vladimir, 600000. Russia. Phone/fax: +7 (922) 47-97-91. E-mail: tpp_vlgu@mail.ru*

[2] *Technofilter Ltd. Bolshaya Nijegorodskaya St., 77. Vladimir, 600016. Russia. Phone: +7 (922) 47-55-29. E-mail: OM.TF@mail.ru*

*Supervising author; +Corresponding author

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Abstract

Method for preparing microfiltration polyamide membranes possessing positive superficial charge is developed in Technofilter Ltd. Membranes are prepared by volume modification by introducing functional polymers containing amino groups.

The procedures for monitoring water quality, bacterial indicators and viral pollution control are needed in accordance with the Sanitary code and regulations 2.1.4.559-96 "Drinking Water", and Sanitary code and regulations 2.1.5.980-2000 "Hygienic requirements to protection of surface water".

The investigation of concentrating process of viruses from waters of different origin with the use of positively charged microfiltration membrane grade ММПА$^+$-0.2 was carried out in Scientific research institute of human ecology and environmental hygiene named after A.N. Sysin at the Russian Academy of Medical Science.

As a result of the researches two schemes of monitoring procedure of virus pollution with the use of membranes ММПА$^+$-0.2 are developed and their high efficiency is established.