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The invention relates to the field of medicine and chemistry, namely to new polymeric antibacterial materials based on lignin.

Summary of the invention consists in that a polymeric material with antibacterial properties is proposed, which is a lignin grafted with the antibacterial preparation N'-(5-nitrofurfu-rylidene)isonicotinehydrazide (isofural), wherein the isofural content is of 30...50 wt.%. At the same time, the grafting is performed by preliminary activation of lignin with ethyl chloroformate in the presence of an organic base in dimethylformamide at 0°C.

The polymeric material has an antibacterial effect at micromolecular isofural level, low toxicity and is soluble in the dimethylformamide-water mixture (1:1).

Claims: 1

Fig.: 2