

28. Mochalova, A.E., Kruglova, E.N., Yunin, P.A., Apryatina, K.V., Smirnova, O.N., Smirnova, L.A. Graft and block copolymers of chitosan with vinyl monomers: Synthesis, structure, and properties. *Polymer Science Series B*. 2015. Vol. 57(2). Pp. 93–105.
29. Smirnov, V.F., Smirnova, L.A., Mochalova, A.E., Kryazhev, D.V., Tsvetova, N.E., Zotov, K.A. Destruction of compositions based on chitosan copolymers with vinyl monomers by micromycetes. *Biotekhnologiya*. 2011. No. 4. Pp. 47–56.
30. Chiellini, E., Meisel, I. Resent advances in biodegradable polymers and plastics. Wiley, Somerset New Jersey U.S.A.: John and Sons, 2003. 446 p.
31. Li, Y., Shellhorn, H.E. Rapid kinetic microassay for catalase activity. *Journal of Biomolecular Techniques*. 2007. Vol. 18. Pp. 185–187.
32. Nagaraja, P., Shivakumar, A., Kumar, S.A. Development and evaluation of kinetic spectrophotometric assays for horseradish peroxidase by catalytic coupling of paraphenyldiamine and mequinol. *Analytical Sciences*. 2009. Vol. 25. Pp. 1243–1248.
33. Досон Р., Эллиот Д., Эллиот У., Джонс К. Справочник биохимика [Biochemistry handbook]. Москва: Мир, 1991. 544 p. (rus)
34. Ermolovich, O.A., Makarevich, A.V., Goncharova, E.P., Vlasova, G.M. Methods for Analyzing of Biodegradability of Polymeric Materials. *Biotechnology in Russia*. 2005. No. 4. Pp. 62–72.
35. ASTM G 21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi. American Society for Testing and Materials. 2002. 6 p.
36. ASTM D5590-00 Standard Test Method for Determining the Resistance of Paint films and Related Coatings to Fungal Defacement by Accelerated Four-Week Agar Plate Assay. 2010. 4 p.
37. ISO 846 Plastics — Evaluation of the action of microorganisms. 1997. 27 p.
38. Smirnov, V.F., Berezhnaya, Ye.V., Semin, I.V., Frantsuz, Z.S., Tsendrovskiy, D.V. Gribostoykiye akrilovyye emulsii dlya vodno-dispersionnykh materialov razlichnogo naznacheniya [Fungi-resistant acrylic emulsions for water-dispersive materials for various purposes]. *Lakokrasochnyye materialy i ikh primeneniye*. 1993. No. 6. Pp. 15–16. (rus)
39. Serova, T.A., Titova, J.A., Shenin, J.D. Chemical method of assessing the degree of biodegradation of wooden structural elements. *Magazine of Civil Engineering*. 2014. No. 3(47). Pp. 77–89.
30. Chiellini E., Meisel I. Resent advances in biodegradable polymers and plastics. Wiley, Somerset New Jersey U.S.A.: John and Sons, 2003. 446 p.
31. Li Y., Shellhorn H.E. Rapid kinetic microassay for catalase activity // *Journal of Biomolecular Techniques*. 2007. Vol. 18. Pp. 185–187.
32. Nagaraja P., Shivakumar A., Kumar S.A. Development and evaluation of kinetic spectrophotometric assays for horseradish peroxidase by catalytic coupling of paraphenyldiamine and mequinol // *Analytical Sciences*. 2009. Vol. 25. Pp. 1243–1248.
33. Досон Р., Эллиот Д., Эллиот У., Джонс К. Справочник биохимика. Москва: Мир, 1991. 544 с.
34. Ermolovich O.A., Makarevich A.V., Goncharova E.P., Vlasova G.M. Methods for Analyzing of Biodegradability of Polymeric Materials // *Biotechnology in Russia*. 2005. № 4. Pp. 62–72.
35. ASTM G 21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi. American Society for Testing and Materials. 2002. 6 p.
36. ASTM D5590-00 Standard Test Method for Determining the Resistance of Paint films and Related Coatings to Fungal Defacement by Accelerated Four-Week Agar Plate Assay. 2010. 4 p.
37. ISO 846 Plastics — Evaluation of the action of microorganisms. 1997. 27 p.
38. Смирнов В.Ф., Бережная Е.В., Семин И.В., Француз З.С., Цендровский Д.В. Грибостойкие акриловые эмульсии для водно-дисперсионных материалов различного назначения // *Лакокрасочные материалы и их применение*. 1993. № 6. С. 15–16.
39. Серова Т.А., Титова Ю.А., Шенин Ю.Д. Химический метод оценки степени биодеградации древесины конструктивных элементов // *Инженерно-строительный журнал*. 2014. №3(47). С. 77–89.

Nadezhda Anikina,
+7(904)045-06-08; *undinaf@gmail.com*

Vasily Smirnov,
+7(951)917-10-15; *biodeg@mail.ru*

Olga Smirnova,
+7(905)668-71-31; *protectfun@mail.ru*

Elena Zaharova,
+7(960)184-05-46;
zaharova_elena_aleksandrovna@mail.ru

Надежда Андреевна Аникина,
+7(904)045-06-08;
эл. почта: undinaf@gmail.com

Василий Филиппович Смирнов,
+7(951)917-10-15; *эл. почта: biodeg@mail.ru*

Ольга Николаевна Смирнова,
+7(905)668-71-31;
эл. почта: protectfun@mail.ru

Елена Александровна Захарова,
+7(960)184-05-46; *эл. почта:*
zaharova_elena_aleksandrovna@mail.ru

© Anikina N.A., Smirnov V.F., Smirnova O.N., Zaharova E.A., 2018