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| **Cell viability and cytotoxicity analysis of *Vespa crabro* Nest Extracts on *Spodoptera frugiperda* cell culture**  ***Alev ÇALDAŞ1*** ***0000-0003-4793-2174\*, Ceren BÖRÇEK KASURKA2 0000-0002-5772-9463, Ömer ERTÜRK3 0000-0001-5837-6893***  *1* *Faculty of Art&Science, Department of Molecular Biology and Genetics, Ordu University,Ordu, Turkey,*  *2 Faculty of Art&Science, Department of Molecular Biology and Genetics, Ordu University,Ordu, Turkey,*  *3 Faculty of Art&Science, Department of Molecular Biology and Genetics, Ordu University,Ordu, Turkey,*     |  | | --- | | **Abstract**  In this study, cell viability and cytotoxicity analyzes were performed on Spodoptera frugiperda (Sf9) cell cultures of extracts obtained from Vespa crabro nests collected from the Black Sea region. The MTT method was applied to determine the effects of ethanol extracts prepared from wasp nest samples. Concentrations of 100, 25, 12.5, 6.25, 3.125, 1.562 and 0.781 μg/mL of extract were applied in MTT analysis. It was observed, the applied concentrations decreased cell viability depending on the dose, were highly toxic to the Sf9 cells and increased cytotoxicity depending on the dose increase.  This study was financially supported by Ordu University BAP unit (B-1817). | | ***Keywords: Vespa crabro Nest****,* ***Sf9****,* ***MTT*** |   **References**   1. Petcharawan, O., Paitoon, N., Sripaiboon, P., & Saelee, S. (2012). Antiviral activity of crude hexane extracts from Allamanda cathartica on the replication of Autographa californica multiplem nucleopolyhedrovirus*. King Mongkuts Institute of Technology Ladkrabang*, 12(1), 21-29. 2. Siddiqui, M. J., Ismail, Z., Aisha, A. F. A., & Abdul, A. M. S. (2010). Cytotoxicity activity of Catharanthus roseus (Apocynaceae) crude extracts and pure compounds against human colorectal carcinoma cell line*. International Journal of Pharmacology*, 6(1), 43-47. 3. Gad, S. C. (1999). Multiple chemical sensitivity: a moderator's viewpoint. *International Journal of Toxicology*, 18, 379-381. |