

Title: *PROCESS FOR OBTAINING OF THE ANTIOXIDANT EXTRACTS BASED ON NATURAL PIGMENTS*

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Category: *A*

Description: *The invention relates to the elaboration of a new process for obtaining of the new antioxidant extracts based on pigments from Arthrospira platensis biomass, remaining from the production of the BioR remedy. The process according to the invention consists in the following steps: the dried at the temperature of $+50\pm 5^{\circ}\text{C}$ remaining biomass of Arthrospira platensis is supposed to grinding and then mixed with 96% ethyl alcohol in the 1:10 v/v ratio. The suspension is supposed to sonication (50 W) for 5 minutes or placed*



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in a water bath at the temperature of +45°C for 30 minutes with periodic stirring. The pigment preparation is separated from the biomass by centrifugation. Technical result consists in the obtaining of the extracts with a content of β -carotene of 0.645 ± 0.001 - 0.6875 ± 0.010 mg/100g.

The results were obtained in the framework of project 20.80009.5107.16. "New biologically active microbial preparations for increasing the reproductive and productive potential of animals of zootechnical interest ", financed by NARD.

State of development: The preparation is used in the research laboratories of the Scientific and Practical Institute of Biotechnology in Animal Husbandry and Veterinary Medicine. The preparation is tested at the enterprises for swine and sheep production.

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