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The invention relates to the field of biotechnology, in particular to the production of bioactive substances from mature walnut shells with antioxidant and immunomodulatory properties.

The process for producing bioactive substances from mature walnut shells (*Juglans regia* L.) comprises grinding of mature walnut shells, their maceration for 11...13 hours in a 1% solution of pectolytic enzymes at a temperature of 18...25°C, washing with water by stirring of walnut shells to remove the remaining enzyme, mixing of macerated walnut shells with 50...55% water-ethanol solution and extraction for 10...12 hours at a temperature of 18...20°C with subsequent filtration of the produced water-ethanol extract.

Claims: 1