

**PECULIARITIES ASEPTIC CULTURE ARAUKARIA
HETEROPHYLLA (SALISB.) FRANCO.**

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Araucaria is one of the most promising plants in landscaping interiors. It not only has beautiful decorative effect, but also highlights volatile than healthier living space man.

Araucaria (*A. heterophylla*) is known as a houseplant under a different name - Araucaria high (*A. excelsa*). It is often referred to as the "Norfolk spruce." Araucaria propagated by seed, cuttings are. A special feature is that from cuttings taken from lateral branches, does not form vertical stems and shoots grow only in the horizontal plane. Sometimes used for breeding vaccinations.

Since traditional methods of reproduction are not always fully ensure the preservation of the properties of the parent individual is urgent introduction of new technologies through which we get high-quality, original cured planting material. Leading among them is microclonal reproduction.

The purpose of research - to develop a method of obtaining good growing aseptic culture riznolystoyi Araucaria Araucaria heterophylla, which takes into account species-specific morphological and biological characteristics of the species.

Materials and methods research - mother plants - seven-year tree Araucaria heterophylla Araucaria riznolystoyi as an object of microclonal reproduction had several features that were considered during the selection of methods of sterilization.

Sterilization of plant material was carried out by conventional methods in the author's modification. The first step was dipping the cuttings in a 96% solution of ethanol for 10 seconds. To sterilize used commercial solution of sodium hypochlorite at three concentrations with different exposures processing. Selected explants, planted on nutrient media for cultivation, as which we used a modified nutrient medium Murasihe-Skoog (MS). For induction of growth and development processes used: for kalyusoutvorenniya - IAA for rooting explants - NOC and IMC for normal growth of suspension culture - 2,4D.

Results. We took into account the recommendations on the effectiveness of solutions sterilyantiv. Taking into account the biological characteristics *Araucaria heterophylla* L sodium hypochlorite solution is selected. When the solution concentration of 1.25 on the ninth day of cultivation viable were only 15% and 30% of the explants, according to the exposure time. When the solution concentration of 1,75 on the ninth day of cultivation viable remaining 50% and 65% of explants. The best performance was obtained when the concentration of a solution of 2,5 on the ninth day of culturing viable were 80 % and 100 % of explants, respectively. These results were due to the stronger influence of the components of sterilizing agents on epiphytic microflora.

Using this technique will get good aseptic culture of the growing with which it will be possible to conduct further operations not only in culture in vitro, but also in conditions in vivo. This is important not only for the interior landscaping industry development, but also for the development of ornamental horticulture in general.