

Method for preparation of Ag and Au nanoparticles by extract of lyophilised biomass of green algae *Parachlorella kessleri*

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Description of the technology	Silver (Ag) and gold (Au) nanoparticles are currently widely used in a variety of applications (from electronics to biomedicine); however, the procedures for their preparation is often environmentally unfriendly. The use of biological methods for their production is more acceptable from an environmental point of view; on the other hand it often results in poor control over their size or shape. Green microscopic algae are infrequently used for nanoparticle production. The subject of the innovation is a new method for the preparation of Ag and Au nanoparticles using an extract from lyophilised biomass of the alga <i>Parachlorella kessleri</i> . By mixing the extract with silver or gold solutions it is possible to prepare sufficiently stable spherical nanoparticles of Ag or nanoparticles of Au with a narrow size distribution.
Keywords	Green microscopic alga, nanoparticle production
Stage of Development	development of prototype
Language of communication	Slovak, English
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