

Title (en)
PROCESS FOR PREPARING CHITOSAN PARTICLES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON CHITOSANPARTIKELN

Title (fr)
PREPARATION DE PARTICULES DE CHITOSANE

Publication
EP 1280829 A1 20030205 (EN)

Application
EP 01937295 A 20010510

Priority
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• US 0115182 W 20010510

Abstract (en)
[origin: WO0187988A1] Disclosed is a process for producing particles of the modified carbohydrate polymer chitosan. Such chitosan particles are "activated" as a consequence of the specific steps used in the process. The process involves precipitation of dissolved chitosan from an acid solution thereof by the step-wise addition of neutralizing agent to the solution. A partial neutralization is carried out under shear agitation to form a continuous gel phase having a pH within the range of 5.0 to 6.9. This partially neutralized chitosan gel phase is then further subjected to shear agitation for at least 10 seconds to homogenize the gel phase. The homogenized gel phase is then further neutralized under shear agitation to a pH of above 6.9 to form a gel-like suspension of discrete chitosan particles. Chitosan particles in this form are useful in a number of contexts including, in particular, in the area of plant care.

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