In this issue

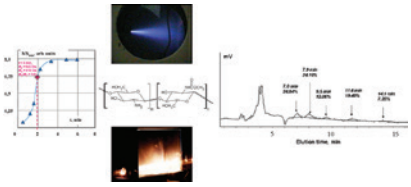
Tatiana Vasilieva, Sergey Lopatin, Valery Varlamov, Vladimir Miasnikov, Aung Myat Hein and Michael Vasiliev

Hydrolysis of chitin and chitosan in low temperature electron-beam plasma

DOI 10.1515/pac-2016-0603
Pure Appl. Chem. 2016; 88(9): 873–879

Conference paper: Controllable chitin and chitosan hydrolysis in electron beam plasma was proved. Water-soluble chitooligosaccharides (M_w = 800–2000 Da) were formed. 95% yield of chitooligosaccharides was attained by optimizing treatment conditions.

Keywords: bioactive oligosaccharides; chitin; chitosan; electron-beam plasma; EUCHIS-12; ICCC-13; plasma-stimulated hydrolysis.



Oscar Goñi, Patrick Quille and Shane O'Connell

Production of chitosan oligosaccharides for inclusion in a plant biostimulant

DOI 10.1515/pac-2016-0701
Pure Appl. Chem. 2016; 88(9): 881–889

Conference paper: Commercial development of a platform of chitosan oligosaccharide (CHOS) products to solve crop productivity challenges.

Keywords: agriculture; chitosan oligosaccharides; commercial; EUCHIS-12; field trial; ICCC-13; plant biostimulants; sustainable; tomato.

Commercial development of a platform of chitosan oligosaccharide (CHOS) products to solve crop productivity challenges.