



New fertilizers with protein structure with fitostimulator role

Carmen SIRBU, T. CIOROIANU, Monica DUMITRASCU - National Institute of Research and Development for Pedology, Agrochemistry and Environment Protection Bucharest

In recent years, on an international level, are frequently used protein hydrolysate, from natural plants or animal in fertilizers composition, these representing substances with chelated micro-nutrients properties important for plant metabolism, but also with the fitostimulator role. A priority of Romanian research is to use a protein hydrolysates to obtain various compositions extraradiculara application of fertilizers. Researches were conducted for obtaining agrochemicals and testing of a liquid fertilizer NPK or NK with microelements (Fe, Cu, Zn, Mn), secondary (Mg, S) and protein hydrolysates chelated. There are presented chemical characteristics of experimental fertilizer that have been tested agrochemical in vegetation on tomatoes. The paper presents results of agrochemical testing performed in vegetation house, new variants of fertilizer composition with opportunities to use both in classic agriculture and ecological.