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Development of new organo-mineral fertilizer use in sustainable agriculture

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Worldwide a priority of the producers of fertilizers is the obtaining and promoting new organo-mineral fertilizer by developing new classes of fertilizers made of natural organic substances. These fertilizers, with a high humice acid content, fulvice and salts thereof, may contribute to improve plant nutrition, better indices of soil fertility and food security by providing superior quality, environmentally friendly agricultural products. Researches were conducted for obtaining agrochemicals and testing organo-mineral fertilizers with humice substances, microelements and fulvice used both in classic agriculture and ecological. Fertilizers can be applied both extraradicular as well as irrigation or drop. Testing and evaluating these fertilizer has been compared with the witnesses represented by certificates fertilizers. The paper presents results of agrochemical testing carried out in solar on tomato culture using variant composition of organo-mineral fertilizer with opportunities to use both in classic agriculture and ecological.