

浙江省复混肥料、有机-无机复混肥料和有机肥料品质的研究

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Quality investigation of organic fertilizers, inorganic-organic compound fertilizers and compound fertilizers in Zhejiang province

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摘要 浙江省61个具有代表性的复混肥料、有机-无机复混肥料和有机肥料产品的养分含量、物理性状及重金属含量的检测结果表明,浙江省复混肥料、有机-无机复混肥料、有机肥料的养分含量和物理性状总体较好。三类肥料的养分含量合格率分别为:有机肥料95.0%、有机-无机复混肥料72.2%、复混肥料86.3%。从三类肥料的重金属含量的检测情况看,有机肥料中的铜、锌、铅、镉、铬含量均高于有机-无机复混肥料和复混肥料,而且高含量段的分布频率也大。按相应标准判定,有机肥料中35%的样品镉含量超过限量标准,10%的样品铅含量超过限量标准,所有样品的铬含量均在限量标准内;有机-无机复混肥料样品中三种重金属元素均在限量标准内。对有机肥料中的有机肥肥源的重金属含量检测结果表明,有机肥料与其相应的有机肥源中的铜、锌、铅、镉、铬等五种重金属元素的含量均呈显著正相关。

关键词: 肥料 品质 重金属 肥料 品质 重金属

Abstract: An investigation was carried out on the physical and nutritional quality of fertilizers in Zhejiang province. Analysis results of 61 samples collected from domestic compound fertilizers, organic-inorganic compound fertilizers and organic fertilizers showed that majority of the samples met the relevant standards listing criteria. For the criteria for nutrient of these fertilizers was 95.0% for organic fertilizers, 72.2% for organic-inorganic compound fertilizers, and 86.3% for compound organic fertilizers. Heavy metals were also tested. The results showed that Cu, Zn, Pb, Cr and Cd contents were highest in organic fertilizers followed by organic-inorganic compound fertilizers. Cd and Pb contents of organic fertilizer samples was 35% and 10% higher than the upper limitation of national standard respectively, while Pb, Cd and Cr in all organic-inorganic compound fertilizers samples measured under the national standard. The contents of heavy metals in commercial organic fertilizers were significantly correlated with that in the raw organic materials.

Keywords:**引用本文:**周焱¹;陆若辉¹;董越勇¹;姚旭国².浙江省复混肥料、有机-无机复混肥料和有机肥料品质的研究[J] 植物营养与肥料学报, 2007, V13(1): 148-ZHOU Yan¹;LU Ruo-hui¹;DONG Yue-yong¹;YAO Xu-guo². Quality investigation of organic fertilizers, inorganic-organic compound fertilizers and compound fertilizers in Zhejiang province[J] Acta Metallurgica Sinica, 2007, V13(1): 148-

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