

Fe²⁺与胡敏酸的络合特征及其抗氧化性和生物有效性研究

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Characteristics of complexes between iron and humic acids and the anti-oxidation and availability of chelated Fe²⁺

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摘要 在研究不同来源胡敏酸性质的基础上,研究了Fe²⁺与胡敏酸的络合特征以及络合态Fe²⁺的抗氧化性和生物有效性。结果表明,来源于 土的胡敏酸属于A型,而来源于腐解秸秆、粪肥的胡敏酸属于RP型。A型胡敏酸与Fe²⁺络合能力大于RP型。HA-Fe²⁺络合物的络合稳定常数越大,络合物中Fe²⁺抗氧化性越强,玉米叶片中全铁含量也越高,但存在活性铁含量和全铁含量不一致现象。

关键词: 络合态Fe²⁺ 胡敏酸 抗氧化性 生物有效性 络合态Fe²⁺ 胡敏酸 抗氧化性 生物有效性

Abstract: On the basis of studying the properties of humic acids from soil and decomposed corn stalk and manure such as pig manure and chicken manure, the characteristics of complexes between iron and humic acids and the anti-oxidation of chelated iron was researched. The results showed that humic acids from cumulic cinnamon soil were belong to type A, and humic acids from decayed organic materials were belong to type RP. The ability for complexing of humic acids of type A was stronger than that of type RP. The higher stability of the complexes was , the stronger anti-oxidation of chelated iron (Fe²⁺) was. The availability of iron complexing with humic acids were higher than inorganic iron (FeSO₄).

Keywords:

引用本文:

王旭东;王虎;李利敏;张予林.Fe²⁺与胡敏酸的络合特征及其抗氧化性和生物有效性研究[J] 植物营养与肥料学报, 2004,V10(3): 267-

WANG Xu-dong; WANG Hu; LI Li-min; ZHANG Yu-lin .Characteristics of complexes between iron and humic acids and the anti-oxidation and availability of chelated Fe²⁺[J] Acta Metallurgica Sinica, 2004,V10(3): 267-

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