



## Soil Hydroxylamine Reductase Activity Assay kit

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Soil hydroxylamine reductase can reduce the intermediate product hydroxylamine formed in the process of nitrogen metabolism in the soil to ammonia, and the reduced compounds in the soil can be used as hydrogen. The strength of the donor affects the ammonia volatilization loss of nitrogen in the process of soil nitrogen metabolism, and indirectly affects the utilization efficiency of nitrogen fertilizer.  $\text{Fe}^{3+}$  in ferric ammonium sulfate can oxidize hydroxylamine to nitrogen, which is reduced to  $\text{Fe}^{2+}$ .  $\text{Fe}^{2+}$  forms an orange-red complex with o-phenanthroline under weak acid conditions.

There is an absorption peak at 510nm. Hydroxylamine reductase acts on hydroxylamine to reduce the amount of complex formation. The decrease in absorbance at 510nm can reflect hydroxylamine reductase activity.

Catalog No.	251301
Size	50 Assays / 100 Assays
Product Category	Soil Assay
Detection Method	Visible spectrophotometry
Storage/Stability	2-8°C/1 year
Shipping	Gel Packs