



Nitrate Reductase Activity Assay kit

NR is widely present in plants. It is a key enzyme for plant nitrate nitrogen to convert to ammonia nitrogen, and it is also an inducible enzyme, which has an impact on crop yield and quality.

NR catalyzes the reduction of nitrate to nitrite, $\text{NO}_3^- + \text{NADH} + \text{H}^+ \rightarrow \text{NO}_2^- + \text{NAD}^+ + \text{H}_2\text{O}$; the produced nitrite can quantitatively generate red with p-aminobenzenesulfonic acid and alpha-naphthylamine under acidic conditions Azo compound; the generated red azo compound has a maximum absorption peak at 340 nm, which can be determined by spectrophotometry.

Catalog No.	250008
Size	50 Assays / 100 Assays
Product Category	Enzymatic / Metabolic Assay
Detection Method	UV Spectrophotometry
Storage/Stability	-20°C/1 year
Shipping	Gel Packs