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Protocol Griess Test

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Protocol status: Working

We use this protocol and it's working

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Abstract

To assess nitrite levels in individuals with relapsing-remitting multiple sclerosis, the Griess test was performed. A collection of 10 mL of peripheral blood was performed. Nitrite is the only stable end product of nitric oxide self-oxidation in aqueous solution. A high correlation has been established between endogenous NO production and plasma, serum and urine nitrite / nitrate levels. Therefore, the measurement of these levels provides a reliable and quantitative estimate of the nitric oxide output. Serum nitrite levels are measured by reacting the samples with the 96 well microplate Griess reagent. The total nitrite will be analyzed by reacting the samples with 50 µl Griess reagent. Total nitrite is estimated from a standard absorbance curve on a 592 nm reader.

Attachments



[Griess Test.docx](#)

41KB

Guidelines

The complete list of reagents and can be found in the 'Materials' section.

Materials

MATERIALS

- ⊗ N-(1-Naphthyl)ethylenediamine dihydrochloride **Merck MilliporeSigma (Sigma-Aldrich) Catalog #222488**
- ⊗ Sulfanilamide **Merck MilliporeSigma (Sigma-Aldrich) Catalog #S9251**
- ⊗ Sodium nitrite **Merck MilliporeSigma (Sigma-Aldrich) Catalog #237213**
- ⊗ Phosphate buffered saline (PBS)
- ⊗ Phosphorous acid **Merck MilliporeSigma (Sigma-Aldrich) Catalog #215112**

