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.

EXTERNAL LINK
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KEYWORDS
nitrites, Griess reagent, multiple sclerosis


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

MATERIALS TEXT
MATERIALS

| **N-(1-Naphthyl)ethylenediamine dihydrochloride** Sigma - | Aldrich Catalog #222488 |
| Sulfanilamide Sigma - | Aldrich Catalog #S9251 |
| Sodium nitrite Sigma - | Aldrich Catalog #237213 |
| Phosphate buffered saline (PBS) Contributed by users | |
| Phosphorous acid Millipore | Sigma Catalog #215112 |