INFLAMMATORY MARKER

MYELOPEROXIDASE (MPO) ASSAY

A Sensitive Inflammatory Biomarker

Myeloperoxidase (MPO) is a hemoprotein present in leukocytes of blood circulation. It is well known that in published literature, elevated levels of plasma MPO is a sensitive indicator of inflammatory disorders.\(^1\)\(^{-}\)\(^6\) MPO is involved in the oxidation of lipids contained within LDL particles, and its reaction products including hydrogen peroxide are involved in the initiation of systemic inflammation.\(^7\)\(^{-}\)\(^10\) Diazyme’s Latex Enhanced Immunoturbidimetric MPO Assay is accurate, cost effective and designed to work on validated general chemistry analyzers.

**DIAZYMÉ MYELOPEROXIDASE (MPO) ASSAY ADVANTAGES**

- The MPO assay has been designed to work on most modern high throughput general chemistry analyzers
- Faster reporting and improved workflow for research laboratories
- Automated parameters available for a wide range of clinical instrumentation
- Liquid stable format requires no reagent preparation

**REGULATORY STATUS**

USA: For Research Use Only

**AVAILABLE INSTRUMENT SPECIFIC PACKAGING**

- Roche
  - Hitachi
ASSAY PRECISION

The simple precision of the Diazyme MPO Immunoassay was evaluated. In the study, two levels of MPO controls containing 534 pmol/L (77ng/mL) and 3824 pmol/L (551 ng/mL) MPO respectively were tested with 15 duplicates in one run.

<table>
<thead>
<tr>
<th>Level 1: 534 pmol/L</th>
<th>Level 2: 3824 pmol/L</th>
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</thead>
<tbody>
<tr>
<td>Number of Data Points</td>
<td>15</td>
</tr>
<tr>
<td>Mean (U/L)</td>
<td>534</td>
</tr>
<tr>
<td>SD (U/L)</td>
<td>15</td>
</tr>
<tr>
<td>CV (%)</td>
<td>2.7%</td>
</tr>
</tbody>
</table>

ASSAY INTERFERENCE

The substances normally present in the plasma were tested. Less than 10% deviation was produced when tested up to the concentrations shown below:

- Ascorbic Acid: 10 mM
- Bilirubin, free: 40 mg/dL
- Bilirubin, conjugated: 40 mg/dL
- Hemoglobin: 200 mg/dL
- Triglyceride: 270 mg/dL
- Rheumatoid: 75 IU/mL