Complete Solutions for Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency Testing: Eliminate delays in G6PD deficiency testing with a single lysing step assay

Market: G6PD Deficiency Testing

G6PD is a key enzyme in human blood, which helps Red Blood Cells (RBCs) function normally and protects them from potentially harmful byproducts. G6PD deficiency is the most common enzyme deficiency worldwide, causing a variety of diseases including neonatal hyperbilirubinemia, acute hemolysis and chronic hemolysis. Approximately 400 million people are affected worldwide with G6PD deficiency and the occurrence seems to be correlated with the geographical distribution of malaria, leading to the theory that carriers of G6PD deficiency are more prone to malarial infection. Image 1 displays the occurrence of G6PD deficiency worldwide.

Image 1:
Occurrence of G6PD deficiency worldwide


Product

The Pointe Scientific brand by MedTest Dx created a simple, sensitive, and accurate quantitative assay for the kinetic determination of G6PD in blood. Unlike other G6PD assays, which require a total of 30 minutes of sample preparation steps, the Pointe Scientific G6PD assay only requires a single 5-minute lysing step. This unique assay reduces the delay in test results, which drastically improves healthcare professional’s ability to diagnose G6PD deficiency.

Regulatory and Certification

- 510(k) Cleared
- FDA Registered
- CE Mark
- ISO 13485 Certified
- cGMP Compliant
### Features
- Single lysing step
- A quantitative G6PD assay
- Enzymatic method
- Extensive shelf-life of the product
- Complete solutions for G6PD deficiency testing
- Proprietor of the 510(k)
- Manufactured in a highly regulated FDA environment

### Advantages
- The assay only requires a single 5-minute lysing step
- Higher sensitivity assay to determine enzyme activity in red blood cells
- No calibrator required
- 24-month shelf-life
- Reagent, lyse and control all available from the same manufacturer
- Work directly with the manufacturer
- FDA Cleared and CE Marked products

### Benefits
- Eliminate delays in testing and drastically lowers labor costs
- Time and costs savings from not having to perform two tests
- Saves time and money by eliminating the use of a calibrator
- Reduces scrap rate costs
- Provides an effortless and simple ordering process
- Streamlines technical and/or application inquiries
- Eliminates any potential false positives and increase your confidence by working with a high quality reagent manufacturer

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Analyzer Specific</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reagent</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G7583-180</td>
<td>Open Channel</td>
<td>R1: 10 x 6 mL, R2 1 x 120 mL</td>
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<tr>
<td>Lyse</td>
<td></td>
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<tr>
<td>G7583-LYS</td>
<td></td>
<td>1 x 100 mL</td>
</tr>
<tr>
<td><strong>Control</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G7583-CTL</td>
<td>Lyophilized</td>
<td>2 x 0.5 mL Deficient Ctl, 2 x 0.5 mL Intermediate Ctl, 2 x 0.5 mL Normal Ctl</td>
</tr>
</tbody>
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### Instrument Applications
- Beckman Synchron CX
- Cobas Mira
- Hitachi 717
- Hitachi 917

As shown in figure 1, diabetes on a global basis is increasing at an exponential rate. To diagnose and monitor diabetes it is necessary to evaluate patient’s glucose and HbA1c levels. Glucose levels reflect an individual’s glycemia at a specific point in time, whereas HbA1c levels reflect the average glucose levels over the previous 2-3 months. Therefore, HbA1c has been recommended for the diagnosis of diabetes.