**Intended use**

The STANDARD G6PD Test measures quantitative G6PD enzyme activity and hemoglobin. The test can be used to identify people with low G6PD activity to inform treatment decisions at the point of care.

**Components**

- Test device
- Analyzer
- Pipettor
- Extraction buffer
- Code chip

**Test procedure**

1. Bring whole blood to room temperature.
2. Insert test device into analyzer.
3. Rock vial gently to mix.
4. Draw 10 µL of blood from test tube.
5. Add blood to buffer and mix 10–15 times.
6. Put on a new pipettor tip and collect 10 µL of mixed sample with pipettor.
7. Apply the mixed sample to the hole in the test device.
8. Close analyzer flap and wait for 2 minutes.
Use a new pipettor tip for both blood collection and mixed sample collection.

Dispose of tip after mixing blood with buffer and use new tip for collecting mixed sample.

Results Interpretation

<table>
<thead>
<tr>
<th>Classification</th>
<th>G6PD enzymatic activity (IU/g Hb)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
</tr>
<tr>
<td>Normal (high activity)</td>
<td>≥ 4.1</td>
</tr>
<tr>
<td>Intermediate (medium activity)</td>
<td>N/A</td>
</tr>
<tr>
<td>Deficient (low activity)</td>
<td>≤ 4.0</td>
</tr>
</tbody>
</table>

Remember to:

Check kit information.
Make sure the code number on the pouch and the code chip match. Do not use after the expiration date. Code chip must be inserted to perform test.

Mix blood thoroughly before testing.
It is important to bring the blood to room temperature and mix the blood before testing.

Avoid pipetting mistakes.
Avoid collecting blood or mixed sample from the very top layer to prevent bubbles inside the pipettor tip.
Do not insert tip too deep in the tube to avoid collecting extra blood or mixed specimen.

Use a new pipettor tip for both blood collection and mixed sample collection.
Dispose of tip after mixing blood with buffer and use new tip for collecting mixed sample.

Close the analyzer flap immediately.
Close the analyzer flap immediately after applying mixed sample.

Read G6PD measurements and hemoglobin measurements separately.
For example, the top right 13.1 U/g Hb indicates units for G6PD measurement. The bottom left 15.7 T-Hb g/dL indicates hemoglobin measurement.