### 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**
- **Sample collector (STANDARD™ Ezi Tube+)**
- **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. Put 25 ul of venous blood onto the test device wrapper using a pipetteman.
5. Use sample collector. Tilt horizontally to draw blood to the black line.
6. Mix blood with buffer 8–10 times.
7. Collect mixed sample with new sample collector.
8. Apply the mixed sample to the hole in the test device. Close analyzer flap and wait for 2 minutes.
Results Interpretation

<table>
<thead>
<tr>
<th>Classification</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal (high activity)</td>
<td>≥ 4.1</td>
<td>≥ 6.1</td>
</tr>
<tr>
<td>Intermediate (medium activity)</td>
<td>N/A</td>
<td>4.1–6.0</td>
</tr>
<tr>
<td>Deficient (low activity)</td>
<td>≤ 4.0</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.

**Do not put sample collector into venous blood tube.**

Collect sample from test device wrapper.

**Collect sufficient amount of sample.**

Ensure you collect sufficient volume of blood and buffer. Fill the sample collector to the black line.

**Use a new sample collector for each type of collection.**

Dispose sample collector after mixing blood with buffer, and use new sample collector for mixed sample collection.

**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.