**Urineysis Reagent Strips (Urine)**

**Package Insert**

**Mission Urinalysis Reagent Strips (Urine) are for the qualitative and semi-quantitative detection of common analytes in human urine to aid in the diagnosis of metabolic substances, nor with reducing metabolites of drugs (e.g. salicylates and riboflavin). Glucose in urine may be affected by substances that cause false positive reactions, such as||Substances that may cause false positive reactions include:||**TABLE 1**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ascorbic acid</td>
<td>Reduces ferricyanide to ferrocyanide, causing a false negative result for reducing substances.</td>
</tr>
<tr>
<td>Glucose oxidase</td>
<td>Inhibits the formation of reducing substances, causing a false negative result for reducing substances.</td>
</tr>
<tr>
<td>Glucose-6-phosphate dehydrogenase</td>
<td>Inhibits the formation of reducing substances, causing a false negative result for reducing substances.</td>
</tr>
<tr>
<td>Sulfhydryl compounds</td>
<td>Inhibits the formation of reducing substances, causing a false negative result for reducing substances.</td>
</tr>
<tr>
<td>Ketone bodies</td>
<td>May cause false positive results for ketone bodies.</td>
</tr>
<tr>
<td>Sugar</td>
<td>May cause false positive results for reducing substances.</td>
</tr>
<tr>
<td>Urobilinogen</td>
<td>May cause false positive results for reducing substances.</td>
</tr>
</tbody>
</table>

**PRINCIPLE AND EXPECTED VALUES**

**Glucone**: This test is based on the enzymatic reaction that occurs between glucose oxidase and hydrogen peroxide. Glucose oxidase catalyzes the oxidation of glucose to gluconic acid and hydrogen peroxide. The peroxide is detected by the presence of a chromogen, which is oxidized to a pink color.

**Ketone Bodies**: This test is based on the enzymatic reaction that occurs between ketone bodies and a chromogen. Ketone bodies are metabolized by the liver, and the resulting ketone is detected by the presence of a chromogen, which is oxidized to a pink color.

**Nitrite**: This test is based on the enzymatic reaction that occurs between nitrite and a chromogen. Nitrite is produced by the oxidation of nitrate by certain bacteria. The chromogen is oxidized to a purple color.

**Urobilinogen**: This test is based on the enzymatic reaction that occurs between urobilinogen and a chromogen. Urobilinogen is one of the major compounds produced in heme synthesis and is an indicator of health or disease, and as such, is a part of routine health screening. The color blocks on the chart correspond to a range of analyte concentrations.

**Peroxidase**: This test is based on the enzymatic reaction that occurs between peroxidase and a chromogen. Peroxidase is produced by the oxidation of glucose, and the resulting peroxide is detected by the presence of a chromogen, which is oxidized to a pink color.

**Interpretation of results**

1. The expected range for normal urine with this test is 0.2-1.0 mg/dL (1.5-9.5 mg/mm³). A 2.0 mg/dL (15.5 mg/mm³) or clinical judgment is required to interpret the results of this test.
2. The expected range for normal urine with this test is 40-100 mg/dL (0.4-1.0 mmol/L). A 100 mg/dL (1.0 mmol/L) or clinical judgment is required to interpret the results of this test.
3. The expected range for normal urine with this test is 0-10 mg/dL (0-0.1 mmol/L). A 10 mg/dL (0.1 mmol/L) or clinical judgment is required to interpret the results of this test.
4. The expected range for normal urine with this test is 0-30 mg/dL (0.3-0.3 mmol/L). A 30 mg/dL (0.3 mmol/L) or clinical judgment is required to interpret the results of this test.
5. The expected range for normal urine with this test is 5-50 mg/dL (0.5-0.5 mmol/L). A 50 mg/dL (0.5 mmol/L) or clinical judgment is required to interpret the results of this test.
6. The expected range for normal urine with this test is 0-50 mg/dL (0.5-0.5 mmol/L). A 50 mg/dL (0.5 mmol/L) or clinical judgment is required to interpret the results of this test.
7. The expected range for normal urine with this test is 0-30 mg/dL (0.3-0.3 mmol/L). A 30 mg/dL (0.3 mmol/L) or clinical judgment is required to interpret the results of this test.
8. The expected range for normal urine with this test is 0-30 mg/dL (0.3-0.3 mmol/L). A 30 mg/dL (0.3 mmol/L) or clinical judgment is required to interpret the results of this test.
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10. The expected range for normal urine with this test is 0-30 mg/dL (0.3-0.3 mmol/L). A 30 mg/dL (0.3 mmol/L) or clinical judgment is required to interpret the results of this test.

**LIMITATIONS**

**Interpretation of urine pH**

1. The expected range for normal urine with this test is 6.0-8.0. A pH greater than 8.0 or clinical judgment is required to interpret the results of this test.
2. The expected range for normal urine with this test is 0-30 mg/dL (0.3-0.3 mmol/L). A 30 mg/dL (0.3 mmol/L) or clinical judgment is required to interpret the results of this test.
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**BIBLIOGRAPHY**