**Interpretation of Newborn Screening Results for Biotinidase Deficiency:**

“<” means “is less than”

“>” means “is greater than”

<table>
<thead>
<tr>
<th>Final Result</th>
<th>Test Results</th>
<th>Likely Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Biotinidase</td>
<td>Reference Range</td>
</tr>
<tr>
<td>Normal</td>
<td>Normal</td>
<td>&gt; 80.0 U/dL</td>
</tr>
</tbody>
</table>
| Borderline risk (decreased) | Abnormal | 55.0 – 80.0 U/dL | - Variant form of Biotinidase deficiency  
- Other enzyme defects in red blood cells  
- Improperly handled sample (heat damage or transit delay)  
- Impaired liver function, prematurity, severe jaundice |
| High Risk    | Abnormal (decreased) | < 55.0 U/dL | - Profound Biotinidase Deficiency  
- Variant form of Biotinidase deficiency  
- Other enzyme defects in red blood cells  
- Improperly handled sample (heat damage or transit delay)  
- Impaired liver function, prematurity, severe jaundice |
| No Result    | No Result    |               | - Transfusion  
- Possible transfusion  
- Poor sample quality |