**NAME AND CODE**

Zinc Citrate Dihydrate USP Low HM Powder

Code 2947

**CHEMICAL FORMULA**

$\text{Zn}_3(\text{C}_6\text{H}_5\text{O}_7)_2 \cdot 2\text{H}_2\text{O}$  
Mol. Wt. 610.36

**CAS NUMBER**

546-46-3

**USE**

Nutrient, Dietary supplement; Oral Care Products

**DESCRIPTION**

White fine powder

**CHEMICAL SPECIFICATION**

<table>
<thead>
<tr>
<th>TESTS</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay of dried product (as Zn)</td>
<td>31.3% minimum</td>
</tr>
<tr>
<td>Arsenic (As)</td>
<td>1 ppm maximum</td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>1 ppm maximum</td>
</tr>
<tr>
<td>Lead (as Pb)</td>
<td>5 ppm maximum</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>0.1 ppm maximum</td>
</tr>
<tr>
<td>LOD @ 105°C</td>
<td>1.0% maximum</td>
</tr>
<tr>
<td>Sulfate (as $\text{SO}_4$)</td>
<td>0.05% maximum</td>
</tr>
<tr>
<td>Chloride (as Cl)</td>
<td>0.05% maximum</td>
</tr>
</tbody>
</table>

**Identification:**

TEST A  Positive
TEST B  Positive

**Microbial Test Results**

- Aerobic Plate Count  1000 cfu / gram maximum
- Yeast and Mold Count  100 cfu / gram maximum
- Total Coliforms  Negative

**ZINC CONTENT**

- Anhydrous Basis  33.3 % minimum
- As Is  31.0 % minimum

**CONTAINERS**

50 kg / 110 lb. fiber drums; 25 kilogram packs EU only

**STORAGE**

Store in a clean, dry warehouse in the original unopened containers.

**REVISION DATE**

09/23/09