



**Item Number** LA106  
**Item** Lactose, Monohydrate, Powder, NF  
**CAS Number** 64044-51-5  
**Molecular Formula**  $C_{12}H_{22}O_{11} \cdot H_2O$   
**Molecular Weight** 360.31

Clarity and Color of Solution..... To pass test  
Specific Rotation, [a]<sub>D20</sub>..... +54.4° to +55.9°  
Acidity or Alkalinity..... To pass test  
Water..... 4.5-5.5%

MAXIMUM LIMITS

Microbial Limits:

|Total Aerobic Microbial Count..... 100/g  
|Total Molds and Yeasts..... 50/g  
|Test for Escherichia coli..... Negative  
Loss on Drying..... 0.5%  
Residue on Ignition..... 0.1%  
Heavy Metals..... 5 ppm  
Protein and Light-Absorbing Impurities..... To pass test  
Residual Solvents..... To pass test

***Spectrum Chemicals & Laboratory Products***

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