湖北楚维药业有限公司
HUBEI TRUEVITA PHARMACEUTICAL CO., LTD

Testing method for L-Carnitine Base

1.Specific rotation:

10g of L-Carnitine Base,accurately weighted,dissolved in 100ml volumetric flask,make up 10% water solution,calculate the specific rotation,then calculate according to the calculating forma..

2.PH: make up 5% water solution (1:20) PH should be 5.5-9.5.

3.water content:

Take L-Carnitine , properly weighted, at 100° C -105° C for 3 hours,lost weight should be less than 4%.

4.Residue on ignition:

Take 1g of L-Carnitine Base, to a crucible of have been ignition to constant weight, ignition at 600° C to constant temperature. Residue on ignition should be less than 0.5%.

5.Heavy metal:

1g of L-Carnitine Base,two colorimetric tube.

Tube A: Add 1ml of standard solution of lead,mixture with 2ml of acetate(PH 3.5),dilute Into 25ml with water.

Tube B: Add 25ml of test solution,then adding 2ml of thioacetamide into each of two Tube,wave the tube,lay up for 2 minutes,put two tube on white paper,compare the Solution colour of two tube,colour of tube B should not be more deep than colour of Tube A. Heavy metal should be less than 10ppm.

6.chloride:

1g sample , dissolved in 50ml volumetric flask with water, add 2 drops of potassium chromate,titrate with 0.1mol/L silver nitrate from light green to light red, each 1ml silver nitrate is equivalent to 3.545mg chloride, less than 0.4%.

7.Assay:

0.12g of L-Carnitine Base,accurately weighted,add 3ml of formic acid,add 50ml of glacial acetic acid,make it dissolved,add 2 drops of crystal violets TS,titrate with o.1mol/L perchloric acid to blue endpoint.Perform a blank determination, and make any necessary correction.

Each 1ml(0.1mol/L) perchloric acid is equivalent to 16.121mg L-Carnitine,assay Should be 98%−102%.