



## Specifications

<b>Product</b>	: Calcium Gluconate Monohydrate (Passing as per BP/USP)
<b>Molecular Formula</b>	: $C_{12}H_{22}CaO_{14}$
<b>Molecular Weight</b>	: 430.373 g/mol.
<b>CAS no.</b>	: 299-28-5
<b>Product Code</b>	: 1581

Parameter	Specifications
<b>Appearance</b>	A white or almost white, crystalline or granular powder
<b>Solubility</b>	Sparingly soluble in water, freely soluble in boiling water
<b>Identification</b>	A)By thin layer of chromatography B)Solution S gives reaction of 'Calcium' C)To be comply with test 'Loss on drying'
<b>Appearance of Solution</b>	Solution S is not more intensely coloured than reference solution Y After cooling, it is not more opalescent than reference suspension II
<b>Organic impurities and boric acid</b>	To comply the test
<b>Sucrose and reducing sugars</b>	No red ppt. is formed
<b>Chlorides</b>	Maximum 200 ppm
<b>Sulphates</b>	Maximum 100 ppm
<b>Heavy Metals</b>	Maximum 10 ppm
<b>Magnesium and Alkali metals</b>	Maximum 0.4% w/w
<b>Loss on drying</b>	Not more than 2.0% at 105 <sup>0</sup> C for 16 h
<b>Microbial Contamination</b>	1)Total aerobic microbial count: Maximum 10 <sup>3</sup> cfu/gm. 2)Total yeast and mould count: Maximum 10 <sup>2</sup> cfu/gm.
<b>Assay</b>	Between 98.0%w/w and 102.0% w/w of $C_{12}H_{22}CaO_{14}$ Calculated on dry basis

