

## D-(+)-Glucose Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** D-(+)-Glucose

**Catalog No.:** CFN99769

**Cas No.:** 50-99-7

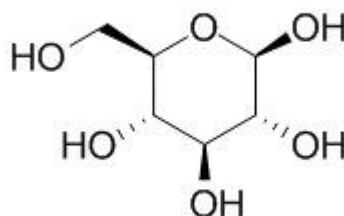
**Purity:** >=98%

**M.F:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**M.W:** 180.16

**Physical Description:** Powder

**Synonyms:** β -D-Glucose anhydrous; Dextrose anhydrous; Glucose anhydrous.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The leaves of *Ginkgo biloba* L.

### [ Biological Activity or Inhibitors ]

D-(+)-Glucose exhibits marked antibacterial activity against *Staphylococcus*

aureus, Escherichia coli and Pyocyanine. <sup>[1]</sup>

D-Glucose can prevent glutathione oxidation and mitochondrial damage after glutamate receptor stimulation in rat cortical primary neurons. <sup>[2]</sup>

D-glucose failed to modulate resting or stimulated cAMP levels, prolonged exposure to pathologically high D-glucose increases formation of inositol polyphosphates, thus increasing Ca<sup>2+</sup> release; Ca<sup>2+</sup> entry is increased by amplification of unknown signal transduction mechanisms triggered by Ca<sup>2+</sup> store depletion. <sup>[3]</sup>

### **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

### **[ HPLC Method ]**

Not data available.

### **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

### **[ References ]**

[1] Chen G Y, Hong Z L. *Academic Forum of Nan Du*, 2001.

[2] Delgado-Esteban M, Almeida A, Bolaños J P. *J. Neurochem.*, 2000, 75(4):1618-24.

[3] Wascher T C, Toplak H, Krejs G J, *et al. Diabetes*, 1994, 43(8):984-91.

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