

D(+)-Galactose, anhydrous

Cell Culture Tested

Product Code: TC127

Product Description :

Molecular Weight: 180.16

Molecular Formula: $C_6H_{12}O_6$

CAS No.: 59-23-4

Synonym: α -D-Galactose, D-Galactopyranose

Galactose is a monosaccharide sugar. It is formed by the hydrolysis of lactose which is catalyzed by enzyme lactase and β -galactosidase. Galactose exists in both open chain and cyclic form. It is a type of sugar which is less sweeter than glucose and not very soluble in water.

Galactose, being carbohydrate acts as a major source of energy for cultured cells. Some studies indicate that use of sugar like galactose and fructose in culture medium can substantially reduce generation of lactate. Moreover, a significantly slower drop in the pH can be attained by replacing glucose with galactose in the medium which is crucial for cell lines propagated for diagnostic virology.

pH of 10% solution in water

5.00 -7.00

Specific rotation $[\alpha]_D^{20}$

+78° to +81.5°

Loss on drying

NMT 1%

Assay (By HPLC)

NLT 98%

Cell Culture Test

Passes

Insect cell culture Test

Passes

Storage and Shelf Life:

Store at 10-30°C away from bright light.

Shelf life is 48 months.

Use before expiry date given on the product label.

Quality Control:

Appearance

White powder

Solubility

Clear colorless solution at 10gm in 100ml of water

Disclaimer :

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