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ProductInformation

Fetuin from fetal bovine serum

Product Number **F 2379** Storage Temperature 2-8 °C

Product Description

Molecular weight: 48.4 kDa¹ CAS Number: 9014-81-7 pl: 3.3¹; 3.2 - 3.8²

Extinction Coefficient: $E^{1\%} = 4.1$ $(278 \text{ nm})^{1}$; $E^{1\%} = 4.5 (278 \text{ nm})^{3}$ Synonym: Fetuin Type III.

Fetuin is a protein which contributes to the attachment and spreading of cells in culture medium. Researchers often add serum that contains fetuin for this purpose.

Fetuin can be used as a glycoprotein standard for carbohydrate structure in a glycoprotein. The structural elucidation of the carbohydrate portion of fetuin has been published. The cDNA and amino acid sequences has been reported. Fetuin contains 12 Cys residues, all involved in disulfide bridges.

The composition of bovine fetuin (weight %) is polypeptide 74%, hexose 8.3%, hexosamines 5.5%, and sialic acid 8.7%. This product usually assays at 5–8% total sialic acid. Nearly all of this sialic acid is bound. The amount of free sialic acid is typically less than 0.3%. A method for determining free sialic acid content has been published. 10

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

This product is soluble in water (1 mg/ml), yielding a clear to slightly hazy, colorless to very faint yellow solution.

Storage/Stability

Solutions of fetuin are stable for approximately 2 weeks when stored at 2-8 °C and for several months when aliquoted and stored at -20 °C. This assumption is based on the observation that cells are still active in serum, which has been stored under the above conditions. Fetuin is a component of serum.

References

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