

Product Datasheet

Iron-Supplemented Calf Serum, Heat Inactivated S11995H-NOV

Unit Size: 50 ml

Store at -20C. Avoid freeze-thaw cycles.

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S11995H-NOV

Iron-Supplemented Calf Serum, Heat Inactivated

Product Information

Unit Size	50 ml
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at -20C. Avoid freeze-thaw cycles.

Product Description

Description	<p>Iron-Supplemented Calf Serum Heat Inactivated Summary</p> <p>Iron-Supplemented Calf Serum (ISCS), Heat Inactivated is supplemented with ferric salt, enabling this serum to bind from three to four times the iron of the Fetal Bovine Serum</p> <p>Why Use Iron-Supplemented Calf Serum</p> <p>Iron-Supplemented Calf Serum (ISCS) is produced from serum of 2 weeks to 12 months old formula-fed calves and is supplemented with iron. Formula-fed calf serum has exceptionally high levels of transferrin, and therefore the capacity to bind higher levels of iron. After supplementation with a ferric salt, Iron-Supplemented Calf Serum contains up to four times as much available iron and transferrin as Fetal Bovine Serum (FBS). It can produce growth curves comparable to that of FBS in many cell culture systems. Proliferating cells require iron for bioenergetics and oxidation-reduction catalysis, including activation of oxygen, nitrogen and hydrogen. Iron-Supplemented Calf Serum supports the long-term growth of many cell types such as fibroblast-like, epithelial-like and lymphoid cell populations.</p> <p>Why Heat Inactivate Serum</p> <p>The objective of heat inactivation is to destroy complement activity in the serum without affecting the growth-promoting characteristics of the product. Removal of complement activity from the serum is not required for most cell cultures but may be necessary for cultures that are sensitive to the complement activity. Since heat inactivation of the serum may, to some extent, decrease the growth performance properties of the Serum this procedure should only be performed if actually required for optimal cell growth. Researchers should evaluate the applicability of heat inactivation in regards to their own application. If heat inactivation is required, the process should be carefully controlled to avoid the increased formation of crystalline and flocculent precipitates, gelling of serum proteins and excessive loss of growth performance. Significant damage to serum can occur when it is subjected to higher than required temperatures or heated over extended lengths of time.</p> <p>Specifications</p> <p>Purification: 0.2 um filtered</p> <p>Sterility Testing: Pass</p> <p>Country of Origin: UNITED STATES</p> <p>Limitations</p> <p>For research use only. Not for diagnostic use.</p>
Species	Bovine
Product Application Details	
Applications	Cell Culture
Recommended Dilutions	Cell Culture
Application Notes	Iron-Supplemented Calf Serum (ISCS), Heat Inactivated is supplemented with ferric salt, enabling this serum to bind from three to four times the iron of Fetal Bovine Serum.

Images

Serum: Iron-Supplemented Calf Serum, Heat Inactivated [S11995H-NOV] - Iron-Supplemented Calf Serum (ISCS), Heat Inactivated is supplemented with ferric salt, enabling this serum to bind from three to four times the iron of Fetal Bovine Serum.





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

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