

# Product Datasheet

## Iron-Supplemented Calf Serum, Heat Inactivated S11995H-NOV

Unit Size: 50 ml

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/S11995H-NOV](http://www.novusbio.com/S11995H-NOV)

Updated 9/11/2023 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/S11995H-NOV](http://www.novusbio.com/reviews/destination/S11995H-NOV)



**S11995H-NOV**

Iron-Supplemented Calf Serum, Heat Inactivated

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



<b>Description</b>	<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>
<b>Species</b>	Bovine
<b>Product Application Details</b>	
<b>Applications</b>	Cell Culture
<b>Recommended Dilutions</b>	Cell Culture
<b>Application Notes</b>	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.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-  
techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/S11995H-NOV](http://www.novusbio.com/reviews/submit/S11995H-NOV)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

