

Produktinformation



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PRODUCT INFORMATION



Carbamylated Fetal Calf Serum

Item No. 21097

Overview and Properties

Synonyms: Ca-FCS, Carbamylated FCS

Source: Fetal calf serum modified with potassium cyanate

Batch specific information can be found on the Certificate of Analysis or by contacting Technical Support

Storage: -20°C (as supplied); avoid freeze/thaw cycles by aliquoting the protein after

resuspension

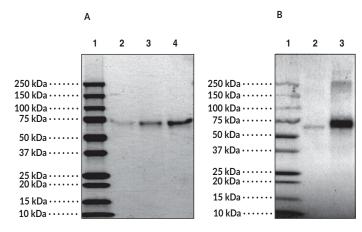
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when

stored properly

batch specific (≥95% estimated by SDS-PAGE) **Purity:**

Supplied in: batch specific

Images



Panel A: Analysis of carbamylated fetal calf serum (FCS) stained with

coomassie on 12% SDS-PAGE. Lane 1: MW Markers

Lane 2: Carbamylated FCS (1 µg)

Lane 3: Carbamylated FCS (2 µg)

Lane 4: Carbamylated FCS (4 µg)

Panel B: Western blot analysis of FCS carbamylation.

Lane 1: MW Markers

Lane 2: FCS

Lane 3: Carbamylated FCS

FCS (lane 2) and carbamylated FCS (lane 3) were reacted with a biotin labeled probe specific for carbamylated lysines and run on 12% SDS-PAGE alongside MW markers (lane 1). The proteins were blotted to

PVDF and detected using streptavidin-HRP.

Representative gel image shown; actual purity may vary between each batch but protein will be ≥95% pure.

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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PRODUCT INFORMATION



Description

Citrullination and carbamylation are two post-translational modifications that result in the generation of citrulline and homocitrulline, two highly related, non-standard amino acids. While citrullination of arginine is catalyzed by peptidylarginine deiminases (PADs), homocitrulline results from the non-enzymic reaction of cyanate with lysine. Carbamylation occurs at low levels in healthy individuals, but at higher levels in several clinical conditions such as atherosclerosis, kidney disease, and inflammation. Carbamylation can lead to changes in protein function, cellular function, and generation of an immune response to homocitrulline containing proteins. This product contains carbamylated fetal calf serum.

References

- 1. Shi, J., van Veelen, P.A., Mahler, M., et al. Carbamylation and antibodies against carbamylated proteins in autoimmunity and other pathologies. Autoimmun. Rev. 13(3), 225-230 (2014).
- 2. Pruijn, G.J.M. Citrullination and carbamylation in the pathophysiology of rheumatoid arthritis. *Front. Immunol.* **6**, 192 (2015).
- 2. Mastrangelo, A., Colasanti, T., Barbati, C., et al. The role of posttranslational protein modifications in rheumatological diseases: Focus on rheumatoid arthritis. J. Immunol. Res. 2015 712490 (2015).

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