

Bovine A1 Beta Casein ELISA Kit (1 plate)

Catalogue No.: BEK-2243-1P

Description: THIS PRODUCT IS TEMPORARILY OUT OF STOCK. PLEASE REFER TO THE "REPLACED BY" FIELD BELOW TO LOCATE THE CURRENT BIOSENSIS PRODUCT TO MEET YOUR RESEARCH NEEDS. β -Casein is expressed as 13 genetic variants resulting from single nucleotide polymorphisms (SNP) in the CSN2 gene. The most frequent genetic variants in western dairy breeds are β -Casein A1 and β -Casein A2. The two types of β -Casein protein, A1 and A2, differ by a single-point mutation at amino acid position 82 (P82/H82).

The Biosensis Bovine A1 β -Casein enzyme-linked immunosorbent assay (ELISA) Kit is a sandwich ELISA that allows the quantification of the bovine A1 β -Casein isoform in 5 hours. This kit consists of a pre-coated rabbit anti-Bovine β -casein polyclonal capture antibody, a chicken anti-bovine A1 β -casein detection antibody and a horseradish peroxidase (HRP)-conjugated donkey anti-chicken IgY antibody. The addition of a substrate (3,3',5,5'-tetramethylbenzidine, TMB) yields a coloured reaction product which is directly proportional to the concentration of Bovine A1 β -Casein present in samples and protein standards.

Extensive validation has shown accurate quantification of A1 β -casein in UHT (Ultra High Temperature) treated milk or long life milk, organic pasteurized and homogenized full cream milk, fresh pasteurized and homogenized milk, cold-pressed raw milk (non-pasteurized, non-homogenized), and biodynamic full-cream whole milk. Please refer to the kit protocol for specific use instructions.

The A2 isoform is not detected in this ELISA assay.

Related products: BEK-2364-SET5, Bovine A1 Beta Casein ELISA Kit Bulk Pack (5 plates)

BEK-2364-SET10, Bovine A1 Beta Casein ELISA Kit Bulk Pack (10 plates)

BEK-2244-1P, Bovine A2 Beta Casein ELISA Kit (1 Plate)

BEK-2365-SET5, Bovine A2 Beta Casein ELISA Kit Bulk Pack (5 plates)

BEK-2365-SET10, Bovine A2 Beta Casein ELISA Kit Bulk Pack (10 plates)

Batch No.: Refer to the product label.

Antigen: Bovine A1 beta casein (H82).

Accession: P02666 (CASB_BOVIN)

Specificity: Bovine A1 beta-casein.

Cross-reactivity: No cross-reactivity is observed with bovine A2 beta-Casein

Storage: Store at 2-8C.

Expiry Date: 12 months from purchase.

FOR RESEARCH USE ONLY

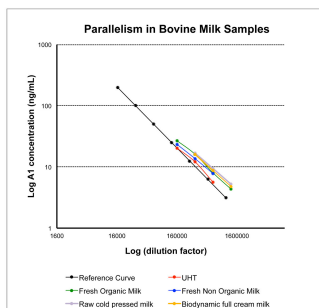
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Kit components: The ELISA kit box contains 1 x 96-well pre-coated strip plate, protein standards, detection reagents, wash and sample buffers, substrate buffer, stop solution and detailed protocols.

Range: 3.1 ng/mL - 200 ng/mL

Sensitivity: This bovine A1 beta-casein ELISA kit detects a minimum of 3 ng/mL A1 beta-casein in assay buffer (defined as A1 concentration at blank OD plus 3x standard deviations of the blank OD (n=10))

Kit protocol: Please refer to our online product listing for current protocol/MSDS versions.



Parallelism in bovine milk samples demonstrates accurate quantification of A1 beta-casein.

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