

## Natural Bos d 5

Product Code:	<b>NA-BD5-1</b>
Lot No:	XXXX
Allergen:	nBos d 5 ( $\beta$ -Lactoglobulin)
Source:	Partially purified Bovine milk
Mol. Wt:	18 kD
Purification:	Column chromatography. Purity on silver stained SDS-PAGE >95%.
Concentration:	See Product Insert. Based on OD 280 nm. Extinction coefficient = 0.94
Formulation:	Preservative and carrier-free in endotoxin free phosphate buffered saline, pH 7.4. Filtered through 0.22 $\mu$ m filter.
Storage:	Store at -20°C
Notes:	$\beta$ -Lactoglobulin runs at 18 kD with dimer at 36 kD on non-reducing SDS-PAGE.



nBos d 5

### **For Research Use Only: Not for Diagnostic or Therapeutic Use**

#### References:

- 1) Alexander LJ, Hayes G, Pearse MJ, Beattie CW, Stewart AF, et al. Complete sequence of the bovine beta-lactoglobulin cDNA. *Nucleic Acids Res* 1989;17(16):6739.
- 2) Roth-Walter F, Pacios LF, Gomez-Casado C, Hofstetter G, Roth GA, et al. The major cow milk allergen Bos d 5 manipulates T-helper cells depending on its load with siderophore-bound iron. *PLoS One*. 2014; 9(8): e104803.
- 3) Luyt D, Ball H, Makwana N, Green MR, Bravin K, et al. BSACI Guideline for the Diagnosis and Management of Cow's Milk Allergy. *Clinical and Experimental Allergy: Journal of the British Society for Allergy and Clinical Immunology*. 2014.
- 4) Fiocchi A, Bouygue GR, Albarini M, Restani P. Molecular diagnosis of cow's milk allergy. *Curr Opin Allergy Clin Immunol*. 2011 Jun;11(3):216-21.
- 5) Kuwata K, Hoshino M, Forge V, Era S, Batt CA, Goto Y. Solution structure and dynamics of bovine beta-lactoglobulin A. *Protein Sci*. 1999 Nov;8(11):2541-5.