

## Natural Der f 2 Molecular Reference Standard

**Product Code: MRS-NDF2**

The Natural Der f 2 MRS is intended to serve as reference standard to determine the Der f 2 content of allergen preparations from house dust mite (*Dermatophagoides farinae*) by immunoassay.

Allergen: Natural Der f 2 (*Dermatophagoides farinae* allergen 2)  
Lot No: xxxxx  
Source: *D. farinae* culture  
Mol. Wt: 14kD  
Purification: From spent mite culture by multi-step affinity chromatography.



nDer f 2

Composition: 10µg natural Der f 2, determined by Amino Acid Analysis, freeze dried in sealed glass vial.  
SDS-PAGE: See inset. Silver-stained SDS-PAGE under non-reducing conditions shows a single band at 14kD.  
ELISA: Immunoreactive in Der f 2 specific ELISA. No trace contamination with Der f 1 was detected by ELISA.  
Purity: >95% purity by in-solution LC-MS/MS after tryptic digest.  
Formulation: Prior to lyophilization, natural Der f 2 was adjusted to 50 mM volatile ammonium bicarbonate with 3% trehalose.  
Storage: Store at -20°C.  
Use: **For Research Use Only: Not for Diagnostic or Therapeutic Use**

The Natural Der f 2 MRS is an Inbio™ product.

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**Product Code: MRS-NDF2-1**

## Reconstitution:

- Allow vial to reach room temperature before use.
- Tap vial gently to collect all material at the bottom.
- Using a sterile syringe reconstitute the MRS to desired concentration by injecting a suitable volume of a buffer of choice (e.g. PBS, pH 7.4 or 1% BSA/50% glycerol/PBS, pH 7.4).
- Mix by gently swirling the vial until content is completely dissolved.
- Adding 1ml of buffer will result in a Der f 2 concentration of 10,000ng/ml.



## References:

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3. Smith AM et al. The molecular basis of antigenic cross-reactivity between the group 2 mite allergens. *J Allergy Clin Immunol* 2001;107:977-84.
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6. Kaul S et al. Regulatory environment for allergen-specific immunotherapy. *Allergy* 2011;66:753-64.
7. Chapman MD and Briza P. Molecular approaches to allergen standardization. *Curr Allergy Asthma Rep.* 2012;12:478-84.
8. Chapman MD et al. Technological Innovations for High-Throughput Approaches to In Vitro Allergy Diagnosis. *Curr Allergy Asthma Rep.* 2015;15:36.