

## Mal d 3.0101

### Allergen Specification

**Product Number: 53100**

**Description:**

*Malus domestica* Mal d 3.0101.  
Recombinant allergen for in vitro  
research and manufacturing use only.

**Immunological function:**

Binds IgE-type human antibodies.

**Origin:**

Recombinant. Expressed by  
recombinant baculovirus (*Autographa  
californica* multiple nuclear  
polyhedrosis virus; AcMNPV) infection  
of *Spodoptera frugiperda* Sf9 insect  
cells.

**Expression construct:**

Full-length cDNA coding for Mal d  
3.0101 fused to a hexa-histidine  
purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 80%); Western  
blot with patient sample.

**Calculated molecular weight:**

12 kDa

**Calculated isoelectric point:**

pH 9.28

**Endotoxin content:**

Tested by LAL (Limulus Amoebocyte  
Lysate) chromogenic endotoxin assay.

**Immunological tests/Functionality:**

Immunodot analyses with  
positive/negative samples.

**Recommended buffer/storage and  
handling conditions:**

Recommendations for storage buffer:  
neutral to slightly alkaline pH and 20%  
glycerol as cryoprotective agent.  
Storage conditions: -70°C or below.  
Repeated freeze/thaw cycles should  
be avoided.

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