

## Car b 1.0109

### Allergen Specification

**Product Number: 51200**

**Description:**

*Carpinus betulus* Car b 1.0109.  
Recombinant allergen for research use  
or manufacturing only.

**Immunological function:**

Binds IgE-type human antibodies.

**Origin:**

Recombinant. Expressed in *E. coli*  
bacterial cells.

**Expression construct:**

Full-length cDNA coding for Car b  
1.0109 fused to a deca-histidine  
purification tag.

**Biochemical tests:**

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

**Calculated molecular weight:**

18,757 Dalton

**Calculated isoelectric point:**

pH 6.38

**Molar extinction coefficient:**

8940;  $A_{280}$  (1 mg/mL) = 0.477

**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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