

Car b 1.0109

Allergen Specification

Product Number: 51200

Description:

Carpinus betulus Car b 1.0109.
Recombinant allergen for in vitro
research and manufacturing use 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:

19 kDa

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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