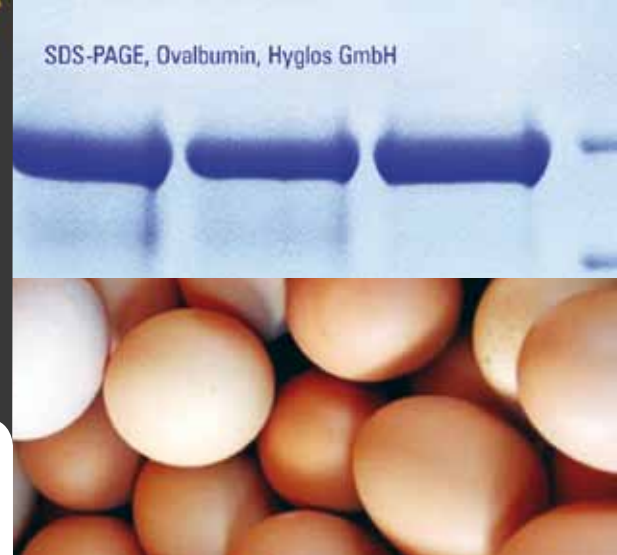




Structure  
of Ovalbumin



SDS-PAGE, Ovalbumin, Hyglos GmbH



## EndoGrade<sup>®</sup> Ovalbumin (< 1 EU\*/mg)

For *in vivo* and *in vitro* applications

### Applications

- *In vivo*: e.g. injection, aerosolization
- *In vitro*: e.g. proliferation assays

### Specifications

- **Source:** chicken egg white
- **Endotoxin conc.:** < 1 EU/mg [1 mg/ml]
- **Synonym:** allergen Gal d 2
- **Purity (SDS-Page):** > 98%
- **Max. solubility:** 20 mg/ml
- **Form:** lyophilized, contains no salts

### Is your ovalbumin contaminated with endotoxin?

#### Ensure accurate results!

The glycoprotein ovalbumin is an extensively studied protein in animal models and also an established model allergen for airway hyper-responsiveness (AHR).

Commercially available ovalbumin is often contaminated with endotoxin which activates endothelial cells in *in vitro* assays.

This leads to artefacts and does not accurately reflect the effect of the protein antigen<sup>1</sup>.

To meet the requirements of *in vivo* and *in vitro* studies, we faced the major challenge to decrease the endotoxin content of ovalbumin to the most appropriate level with Hyglos technology.

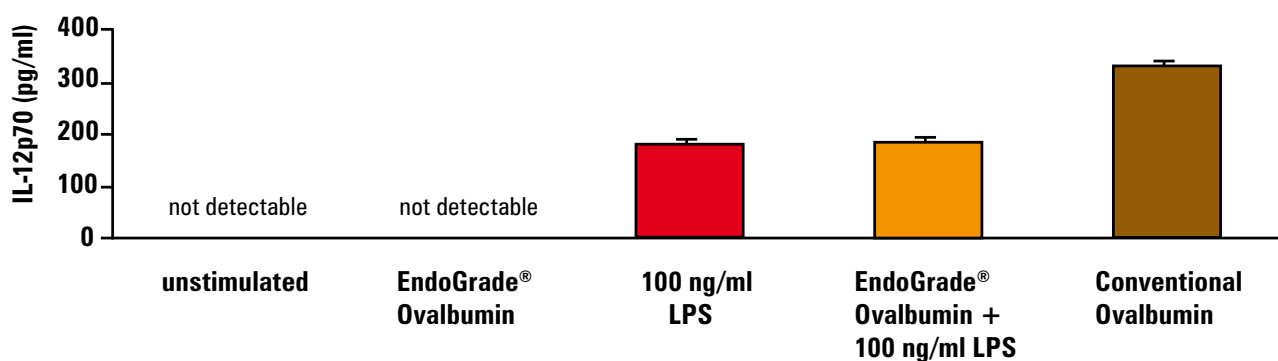
We provide EndoGrade<sup>®</sup> Ovalbumin at superior quality of < 1 EU\*/mg (for research use only).

\*1EU=Endotoxin Unit~ 100pg of endotoxin/ lipopolysaccharide (LPS)

**Literature:** <sup>1</sup> Watanabe et al. Endotoxin contamination of ovalbumin suppresses murine immunologic responses and development of airway hyper-reactivity. J Biol Chem. 2003 Oct 24; 278(43):42361-8.



## EndoGrade® Ovalbumin immune response (customer results)



Adapted from Allergo J 2007, 16: 441

“No IL-12 induction in dendritic cell observed, completely contrary to other ovalbumin preparations.”

T. Biermann, Allergo J 2007; 16

## Publications with EndoGrade® Ovalbumin

**The Journal of Immunology, 2008, 181: 17-21**

**Cutting Edge: Inflammasome Activation by Alum and Alum’s Adjuvant Effect Are Mediated by NLRP3**

Hanfen Li, Stephen B. Willingham, Jenny P.-Y. Ting and Fabio Re

**Nature Immunology, 2008 May, 9(5):558-66**

**Spatial and mechanistic separation of cross-presentation and endogenous antigen presentation**

Burgdorf S, Schölz C, Kautz A, Tampé R, Kurts C

Further publications at [www.hyglos.de](http://www.hyglos.de)

**EndoGrade® Ovalbumin (for laboratory & research use only!)  
Purity > 98%; endotoxin concentration < 1 EU/mg [1 mg/ml]**

Item	Included in delivery / Description	Item No.
EndoGrade® Ovalbumin, 10 mg	Lyophilized (4x 2.5 mg) for evaluation tests & <i>in vivo</i> applications (e.g. injection)	321000
EndoGrade® Ovalbumin, 100 mg	Lyophilized (4x 25 mg) for <i>in vivo</i> applications (e.g. aerosolization) & <i>in vitro</i> applications (e.g. proliferation assays)	321001
EndoGrade® Ovalbumin, 1000 mg	Lyophilized (4x 250 mg) for <i>in vivo</i> applications (e.g. aerosolization) & <i>in vitro</i> applications (e.g. proliferation assays)	321002
EndoGrade® Ovalbumin, Bulk	Lyophilized, > 1 g	321003

Learn more about our products and services at [www.hyglos.de](http://www.hyglos.de)