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# Pertussis Toxin (PT) ELISA

Quantification in IU/ml for IgG  
(WHO-Standard as International reference)

&

Cut-off limits as recommended

The European Reference Centers require a reliable, standardised & reproducible Pertussis Diagnostic including:

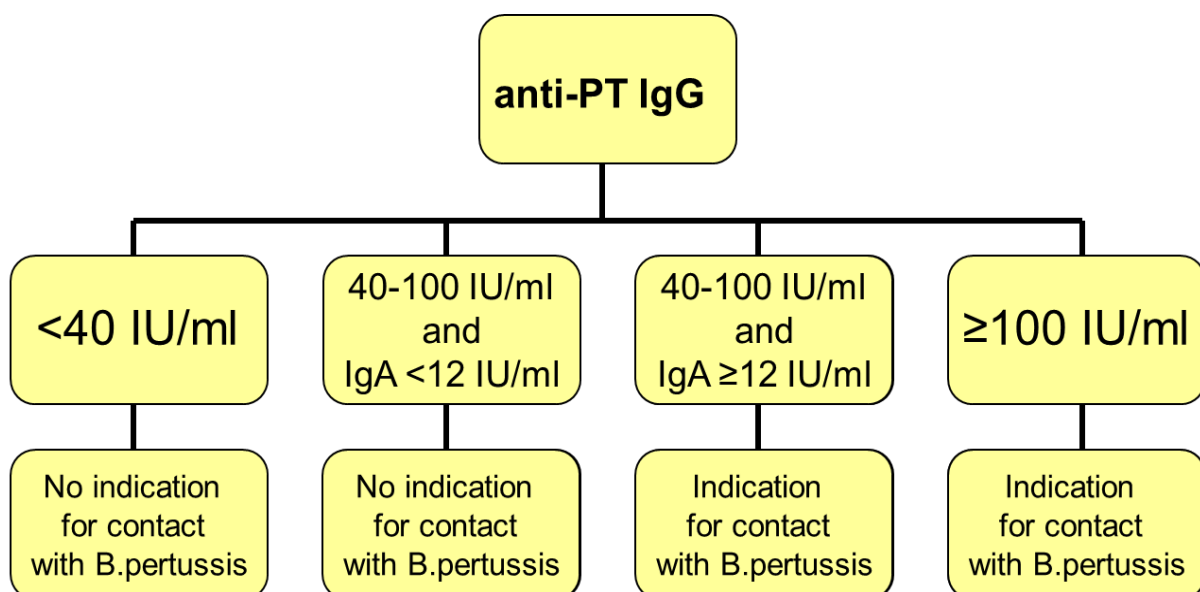
- The use of a **pure Pertussis Toxin- Antigen**
- Determination of **quantitative results in IU/ml**



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## Diagnostic of a Pertussis Infection

referring to the recommendations of the  
European Reference Centers<sup>1</sup>



## Advantages of the pure VIROTECH Pertussis Toxin ELISA

- ▼ Pertussis Toxin is solely expressed of *Bordetella pertussis* and is thus highly specific
- ▼ Anti-PT-IgG antibodies are developed independent on the age
- ▼ The ELISA has been adjusted to the WHO-Standard [IU/ml]
- ▼ The anti-PT IgG antibodies increase rapidly to a concentration of higher 100 IU/ml (17VE) after contact with the pathogen or after vaccination but decrease below this limit again within 12 months.<sup>2</sup>
- ▼ Following the recommendations of the European Reference Centers, 2 cut-offs are adjusted: a lower limit of 40 IU/ml and an upper limit of 100 IU/ml
- ▼ An IgG Quantification-Set is available for the determination of the quantitative results in IgG, but results can also be determined semi-quantitative
- ▼ Adjustment of the cut-off limit in IgA - as recommended - to 12 IU/ml

### Literature:

(1) Performance of Commercial Enzyme-Linked Immunosorbent Assays for Detection of Antibodies to *Bordetella pertussis*; C.H.Wirsing von Koenig et al., JCM, Dec 2010, p4459-4463

(2) Specificity and Sensitivity of High Levels of Immunoglobulin G Antibodies against Pertussis Toxin in a Single Serum Sample for Diagnosis of Infection with *Bordetella pertussis*; Schellekens et al., JCM, Feb 2000, p800-806

## VIROTECH Pertussis Toxin ELISAs

**Pertussis Toxin ELISA IgG, 96 wells**

**Order No.: EC215G00**

**Pertussis Toxin ELISA IgG, Quantification-Set**

**Order No.: EN215Q60**

**Pertussis Toxin ELISA IgA, 96 wells**

**Order No.: EC215A00**

**Pertussis Toxin ELISA IgM, 96 wells**

**Order No.: EC215M00**