



# Antibody index calculation with SERION ELISA CSF

**SERION ELISA CSF is a Microsoft® Excel®-based software for calculating antibody indices (AI) in CSF diagnostics.**

With the program, patient-oriented representation and AI calculation of all analyzed parameters is possible. The use of Reiber charts allows graphic determination of intrathecal antibody syntheses and blood-CSF-barrier dysfunctions.

## Highlights of SERION ELISA CSF

- Patient-oriented representation with AI calculation and Reiber charts
- AI calculation regardless of the chosen dilutions, ability to combine the results of a parameter at will
- Automatic reference to  $Q_{\text{Lim IgX}}$  or  $Q_{\text{IgX}}$  as a function of individual immune response
- Independent, consistent standardization regardless of the chosen dilution factor
- Automatic reference to intrathecal antibody syntheses or barrier dysfunctions

# SERION CSF

## Patient Data

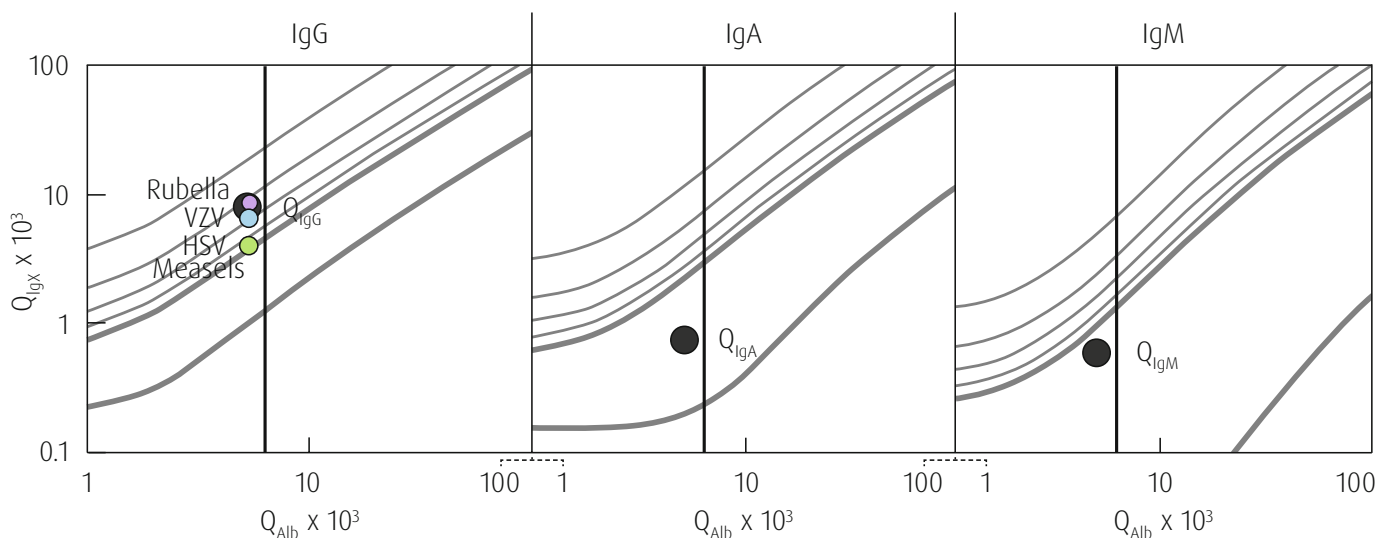
Description	Data
Date	02.03.16
Patient-ID	ID-00001
Date of Birth	01.01.80
Age (Years)	36

	CSF	Serum	$Q_{\text{CSF/Serum}}$	$Q_{\text{lim}}$
	mg/L	g/L	$\times 10^3$	$\times 10^3$
Albumin	135	25,0	5,40	6,40
Total-IgG	63,0	8,0	7,88	3,81
Total-IgA	3,0	4,0	0,75	2,46
Total-IgM	1,2	2,0	0,60	1,08

Intrathecal IgG-Synthesis: IF (IgG) = 52%

## Specific Synthesis of Antibodies

Test		CSF		Serum	$Q_{\text{specific}}$	AI
	Dilution	Units		Units	$\times 10^3$	
Measels Virus IgG	1:2	311,5	1:400	401,8	3,88	1,02
Rubella Virus IgG	1:10	58,4	1:2000	34,5	8,46	2,22
Varicella-Zoster Virus IgG	1:2	421,0	1:400	325,5	6,47	1,70
Herpes Simplex Virus IgG	1:10	56,2	1:800	180,3	3,90	1,02



## Literature

- 1 H. Reiber, Liquordiagnostik in Klinische Neurologie, 2006, 136-170.
- 2 K. Zimmermann, Praktische Liquordiagnostik in Frage und Antwort, 1st ed. (K. Zimmermann, H.-J. Kühn u. E. Linke, 2010).