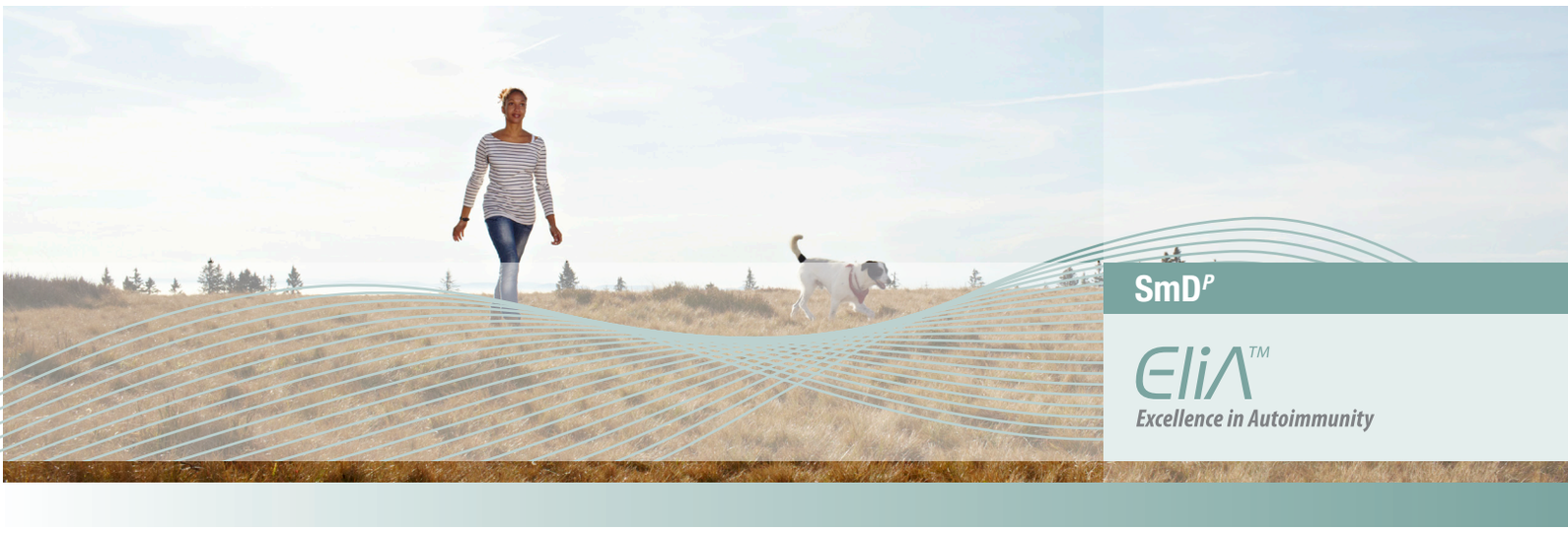

Identify more SLE patients

NEW!

EliA SmD^P

Sm antibodies – a serological hallmark of SLE

Systemic lupus erythematosus (SLE) is an autoimmune disorder characterized by chronic inflammation of the connective tissue, affecting about 0.5% of the population worldwide.[1] Sm antibodies are found in 5–30% of patients with SLE, depending on the ethnicity of the SLE population.[1] Because of their high disease specificity Sm antibodies have been included in the American College of Rheumatology (ACR) criteria for classification of SLE.[2] Sm antibodies have been associated with neuropsychiatric manifestations, central nerve system (CNS) dysfunction, renal disease, and disease activity in SLE, and may thus have a prognostic value.[1]

New state-of-the-art SmD antigen

Common anti-Sm antibody assays may not only contain SmD but also SmB,B' antigens. Due to cross-reactive epitopes on SmB,B' and U1RNP A,C, such tests are not SLE-specific.[1]
The new EliA SmD^P test uses a synthetic SmD_3 peptide as antigens, which is the most sensitive and specific antigen for the detection of anti-Sm antibodies.[2,3]

Improve differential diagnosis of SLE

Due to its high specificity EliA SmD^P differentiates clearly between SLE and other diseases. A positive EliA SmD^P result points to SLE with high probability.

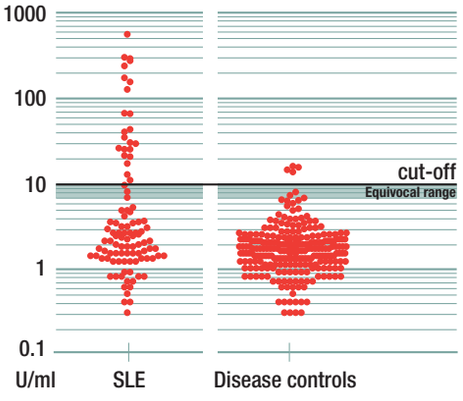

Figure 1: Performance of EliA SmD^P in 350 samples (100 SLE, 250 disease controls: 80 other connective tissue diseases, 50 rheumatoid arthritis, 20 autoimmune thyroid diseases, 60 infections, 40 tumors); internal clinical study

Identify more SLE patients accurately

EliA SmD^P shows a much better sensitivity than the previous EliA Sm test, and thus identifies more patients with SLE. Its high specificity and positive predictive value avoid false positive results and provide early diagnostic guidance in differential diagnosis.

	EliA SmD^P	EliA Sm
Sensitivity	23.0 %	9.0 %
Specificity	98.4 %	98.8 %
PPV	85.2 %	75.0 %
NPV	76.2 %	73.1 %

Table 1: Performance of EliA SmD^P in comparison to the previous EliA Sm test (internal clinical study)

EliA SmD^{P}
Improved lab analysis and diagnostics

Ensure operational excellence – every day
EliA SmD^{P} runs on all Phadia® Laboratory Systems (Phadia 100, Phadia 250, Phadia 2500, and Phadia 5000). Automation increases the efficiency and optimizes the workflow in your laboratory. Fast delivery of results helps to improve your service quality.

Your advantages with EliA SmD^{P}:

- Improved identification of SLE patients.
- Safer differential diagnosis.
- Ideal follow-up of a positive EliA CTD Screen result.
- Increased lab efficiency through automation.

References:
1 Mahler M (2011) Sm peptides in differentiation of autoimmune diseases. *Adv.Clin.Chem. 54, 109-128* **2** Mahler M, Fritzler MJ, Blüthner M (2004) Identification of a SmD_3 epitope with a single symmetrical dimethylation of an arginine residue as a specific target of a subpopulation of anti-Sm antibodies. *Arthritis Res.Ther. 7, R19-R29* **3** Mahler M, Stinton LM, Fritzler MJ (2005) Improved serological differentiation between systemic lupus erythematosus and mixed connective tissue disease by use of an SmD_3 peptide-based immunoassay. *Clin.Diagn.Lab.Immunol. 12, 107-113*

Technical data:

Dilution	1:50			
Cut-off / measuring range	negative	equivocal	positive	measuring range
	< 7 U/ml	7–10 U/ml	> 10 U/ml	0.6 – ≥ 480 U/ml

Ordering information	**Package size**	**Article No.**
EliA SmD^{P} Well	4 x 12 wells	14-5624-01

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