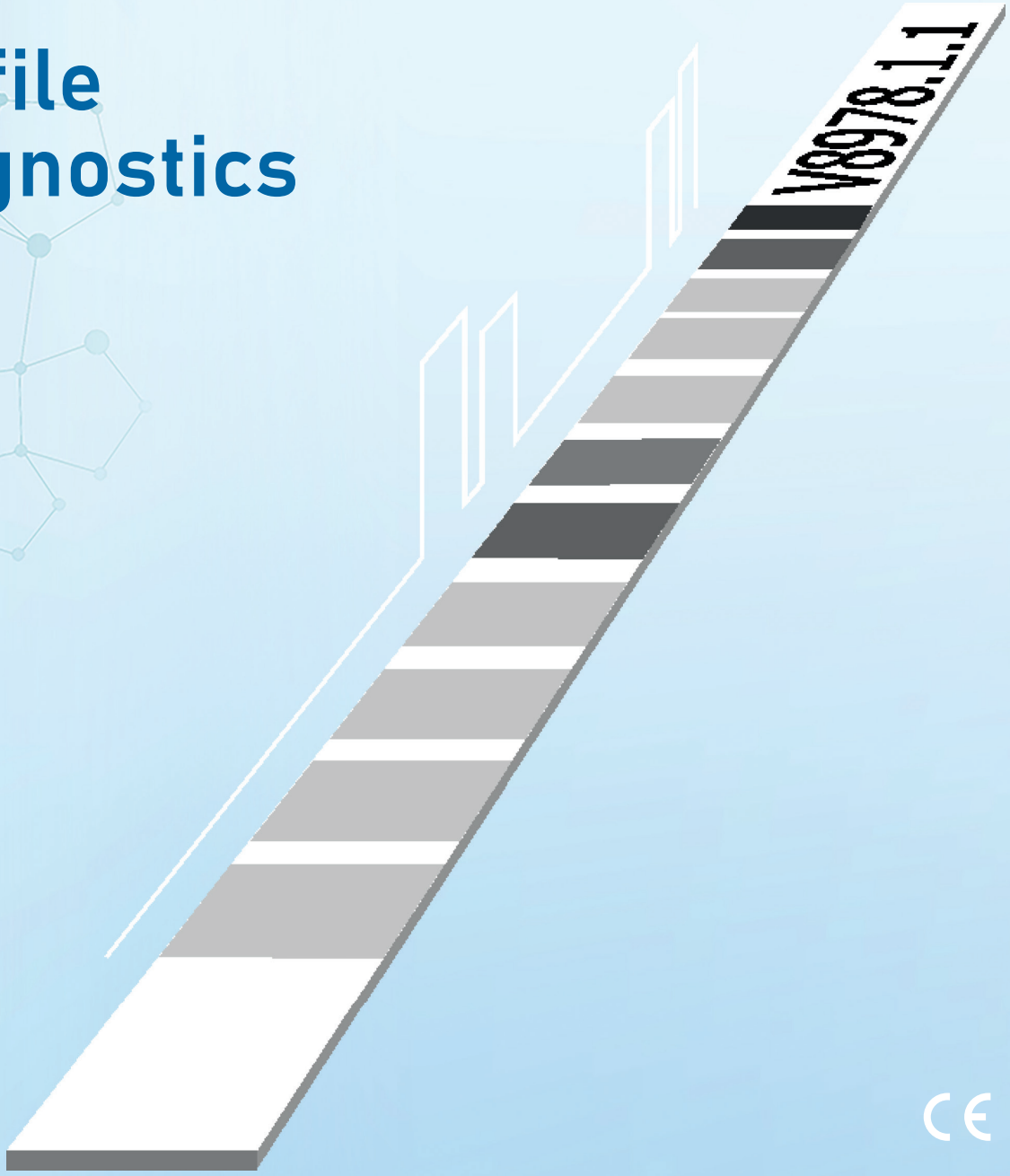
BLOT

LINE & Dot Assays

Manual and Automated LINE & Dot Immunoblots

Generic Assays

Profile Diagnostics



CE

Product Highlights

- Comprehensive Product Portfolio for Autoimmune Diagnostics
- Processing and Evaluation of LINE & Dot Immunoblots
- Automated Immunoblot Analyzer and Software

YOUR RELIABLE PARTNER IN AUTOIMMUNE DIAGNOSTICS

20 Years of Experience, 150 Partners in more than 100 Countries

Manual Assays

	Celiac Diseases		Pernicious Anemia	Neuropathies	Antiphospholipid Syndrome
Antibody specificity	4202 CeliAK IgG LINE	4208 CeliAK IgA LINE	4220 BiermAK LINE	5003 Anti-Gangliosid Dot (IgG/IgM/screen)	5012 Anti-Phospholipid Dot IgG/IgM)
Diamidated gliadin	+	+			
Tissue transglutaminase	+	+			
anti-IgA/anti-IgG	-/+	+/-			
PCA (H^+/K^+ ATPase)			+		
Intrinsic factor			+		
GM1				+	
GM2				+	
GM3				+	
GM4				+	
GD1a				+	
GD1b				+	
GD2				+	
GD3				+	
GT1a				+	
GT1b				+	
GQ1b				+	
Sulfatides				+	
Cardiolipin					+
Phosphatidic acid					+
Phosphatidylcholine					+
Phosphatidylethanolamine					+
Phosphatidylglycerol					+
Phosphatidylinositol					+
Phosphatidylserine					+
Annexin V					+
β2GPI					+
Prothrombin					+

Manual Assays

	Systemic Inflammatory Rheumatic Diseases (ANA/ENA Profiles)				Vasculitis Nephritis	Autoimmune Hepatitis	
Antibody specificity	4074 ANAscl^{plus} Dot	4049 PmScl^{plus} Dot	4289 ANA 12 LINE	4291 ANA 18 LINE	4028 ANCA Dot	4030 HepAK^{plus} Dot	4099 HepAK 7 plus Dot
Nucleosomes			+	+			
Histones			+	+			
dsDNA			+	+			
Sm/RNP	+			+			
RNP (A, C, 68kDa)			+	+			
Sm	+		+	+			
SS-A/Ro60	+		+	+			
SS-A/Ro52			+	+			
SS-B	+		+	+			
Jo-1	+	+	+	+			
Scl-70	+	+	+	+			
PMScl	+	+		+			
CENP A/B	+/+		-/+	+/+			
Ribosomal P0			+	+			
PCNA	+			+			
Ku	+	+					
Mi-2		+					
PL-7		+					
PL-12		+					
SRP		+					
PR3					+		
MPO					+		
GBM					+		
AMA-M2				+		+	+
Sp100							+
Gp210							+
F-actin				+		+	+
SLA						+	+
LKM1						+	+
LC1						+	+
DFS-70				+			

Indications for the LINE & Dot Immunoblot Assays

Anti-Phospholipid Syndrome – An autoimmune disorder diagnosed in patients with recurrent thromboembolic events and/or pregnancy loss in the presence of persistent laboratory evidence of antiphospholipid antibodies (aPL). There is no cure for this rare condition, but medications can reduce its risks. Due to the wide divariety of aPL antibodies and their relevance, aPL profiling provides insight into the diagnosis and ultimately the outcome of patients with antiphospholipid syndrome.

Autoimmune Hepatitis – A life-long and rare liver disease caused by immune-mediated damage to liver cells resulting in inflammation. Untreated autoimmune hepatitis can lead to scarring of the liver (cirrhosis) and eventually to liver failure. If diagnosed and treated early it can be often controlled with medication. Antibody profiling can help differentiate between different types of autoimmune hepatitis.

Autoimmune Myositis – An inflammatory disease of the skeletal muscles. Myositis-specific antibodies may be useful in the diagnosis and classification of idiopathic inflammatory myopathies, as they have been shown to correlate with distinct clinical phenotypes and should be a part of the differential diagnostic testing.

Autoimmune Neuropathies – A condition, acute or chronic, caused by immune-mediated damage to peripheral nerves. It presents with a wide range of symptoms, including subacute progression, asymmetric or multifocal deficits, and selective involvement of motor, sensory, or autonomic nerves. Detection of an autoantibody provides evidence that the peripheral nerve disorder is immune-mediated and can guide the treatment.

Celiac Disease – A serious autoimmune disease that occurs in genetically predisposed individuals where the ingestion of gluten causes damage to the small intestine. Although it is estimated to affect 1 in 100 people worldwide, only about 30% are correctly diagnosed. Detection of autoantibodies can raise awareness, as all people with celiac disease are at risk of long-term complications, regardless of the presence of symptoms.

Indications for the LINE & Dot Immunoblot Assays

Scleroderma – A rare, chronic autoimmune disease of the connective tissue that causes inflammation and fibrosis (thickening) in the skin and it may also cause problems in the blood vessels, internal organs, and digestive tract. While there is no cure for scleroderma, treatments can relieve symptoms, slow progression, and improve quality of life. Autoantibody testing has become an increasingly important part of diagnosis and prognosis.

Systemic inflammatory Rheumatic Diseases – Systemic rheumatic diseases are chronic, inflammatory autoimmune disorders, such as osteoarthritis, rheumatoid arthritis, systemic lupus erythematosus, myositis and scleroderma. ANA/ENA profile detection is a useful diagnostic tool for differential diagnosis.

Pernicious Anemia – An autoimmune condition also called Biermer's anemia that prevents the body from absorbing vitamin B12 resulting in fewer red blood cells to carry oxygen throughout the body. If left treated, it can cause serious medical problems, including irreversible damage to your nervous system. The detection of autoantibodies is a helpful diagnostic tool in evaluating patients.

Vasculitis – A group of rare conditions also called angiitis that damage blood vessels by causing inflammation, or swelling. The autoimmune etiologies are more common, and the restriction of the blood flow can lead to organ and tissue damage. The presence of a particular profile of autoantibodies in a patient can be associated with a specific type of clinical condition.

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Automated LINE & Dot Assays for DotDiver2.0

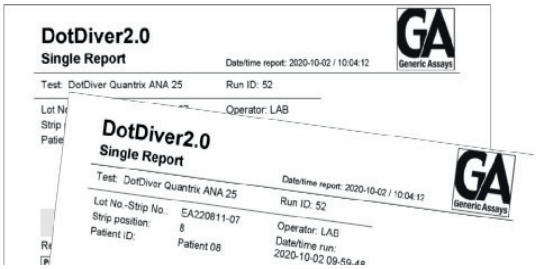
	Celiac Disease		Perni-cious Anemia	Neuropathies			Vasculitis	Antiphospholipid Syndrome	
Autoantibody specificity	5014 CeliAK IgA	5015 CeliAK IgG	5019 BiermAK	50301 Anti-Gangliosid screen	50381 Anti-Gangliosid IgG	50391 Anti-Gangliosid IgM	5018 ANCA	50401 Anti-Phospho-lipid IgG	50411 Anti-Phospho-lipid IgM
Diamidated gliadin	+	+							
Tissue trans-glutaminase	+	+							
PCA (H^+/K^+ ATPase)			+						
Intrinsic factor			+						
GM1				+	+	+			
GM2				+	+	+			
GM3				+	+	+			
GM4				+	+	+			
GD1a				+	+	+			
GD1b				+	+	+			
GD2				+	+	+			
GD3				+	+	+			
GT1a				+	+	+			
GT1b				+	+	+			
GQ1b				+	+	+			
Sufatides				+	+	+			
PR3							+		
MPO							+		
GBM							+		
Cardiolipin								+	+
Phosphatidic acid								+	+
Phosphatidyl-ethanolamine								+	+
Phosphatidyl-glycerol								+	+
Phosphatidyl-inositol								+	+
Phosphatidyl-serine								+	+
Annexin V								+	+
βGPI								+	+
Prothrombin								+	+

	Systemic inflammatory Rheumatic Diseases										
	ANA / ENA Panels							Myositis	Sclero-derma	Autoimmune Hepatitis	
Autoantibody specificity	5016 ANA	5017 PmScl	5291 NEW ANA 18	5020 Quantrix ANA	5035 ANA PCNA	5045 PmScl 12	5066 ANAcyto 10	5093 Myositis	5069 Sclero-derma 10	5021 HepAK 7 plus	5070 HepAK 10
Nucleosome			+	+							
dsDNA			+	+							
Histones			+	+							
Sm/RNP	+		+	+	+						
RNP (A, C, 68kDa)			+	+	+				+		
Sm	+		+	+	+						
SS-A Ro60	+		+	+	+						
SS-A Ro52			+	+		+		+			
SS-B	+		+	+	+						
Scl-70	+	+	+	+	+	+			+		
PMScl 75 /100	-/+	-/+	-/+	-/+	-/+	-/+			+/+		
CENP-A/B	+		+/+	+	+				+/+		
Ribosomal P0			+	+	+		+				
Ku		+		+	+	+			+		
Mi-2		+		+		+		+			
Jo-1	+	+	+	+	+	+	+	+			
PL-7		+		+		+	+	+			
PL-12		+		+		+	+	+			
EJ						+	+	+			
OJ							+				
KS							+				
ZO							+				
HA							+				
SRP		+		+		+	+	+			
PCNA			+	+	+						
sp100				+						+	+
gp210				+						+	+
M2/nPDC				+						+	+
M2 recombinant			+	+							
M2/OGDC-E2											+
M2/BCOADC-E2											+
M2/PDC-E2											+
F-actin			+	+						+	+
DFS-70			+								
SLA										+	+
LKM1										+	+
LC1										+	+
MDA-5						+		+			
TIF1-γ						+		+			
SAE1/SAE2								+/+			
NXP-2								+			
RNA Polymerase III									+		
Fibrillarin									+		
Th/To									+		

Automated

DotDiver2.0

Automated Immunoblot Analyzer



- Automated LINE / Dot immunoblot benchtop analyzer with small footprint
- User-friendly software
- Simultaneous performance of up to 24 different tests
- Ready-to-use reagents and test strips
- Automated barcode identification of test strips and cartridges
- Integrated drying of processed test strips
- Evaluation of processed test strips
- Export of results in digital file format or as paper print out
- LIS connectivity
- Low-maintenance, no liquid handling

Manual

Classic version with manual processing and visual or automated evaluation through scan software (i.e. Blot GAlaxy).

Contact

GA Generic Assays GmbH

Ludwig-Erhard-Ring 3
15827 Blankenfelde-Mahlow OT Dahlewitz
Germany

Phone +49 33708 9286 0
Fax +49 33708 4417 25

info@genericassays.com
www.genericassays.com

Order Information

DotDiver2.0	**REF 5075**
Blot GAlaxy	**REF 5100**

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