

**Product Catalogue  
2022**



**Your  
IVD Partner**

Medipan GmbH / GA Generic Assays GmbH

# Company Profile



*Simply innovative diagnostics*

*Dear customer and partner,*

*We, Medipan GmbH & GA Generic Assays GmbH (Germany), are leading companies in the development, manufacturing and marketing of IVD assays and instruments.*

*Together, we have an extensive experience in immunochemistry and biomedicine, especially in tissue and cell-based IFA, ELISA and LINE & Dot assays for the diagnosis of rheumatic and other autoimmune diseases with neurologic, vascular, hepatic, renal or gastrointestinal origin.*

*We are continuously growing companies in the diagnostic market looking for innovative research and distribution partners worldwide to strengthen our existing network of partners and customers.*

*With kind regards,*

A handwritten signature in blue ink, appearing to read "Bernd Hünig".

*CEO of Medipan GmbH and GA Generic Assays GmbH*

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# ELISA



## Endocrinology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
3002	Medizym® anti-TPO	quantitative determination of IgG antibodies against Thyroid Peroxidase (TPO) in human serum [microtiter plate coated with recombinant human TPO]	96 (90 + C) 105 min / 100 µL of 1:100 dil.
3102	Medizym® anti-Tg	quantitative determination of IgG antibodies against Thyroglobulin (Tg) in human serum [microtiter plate coated with highly purified human Tg]	96 (90 + C) 105 min / 100 µL of 1:100 dil.
3505	Medizym® T.R.A. human	quantitative determination of antibodies against TSH receptor in human serum [microtiter plate coated with TSH receptor (human)]	96 (90 + C) 180 min / 100 µL
3789	Medizym® anti-21-OH	quantitative determination of antibodies against 21-Hydroxylase (21-OH) in human serum [microtiter plate coated with 21-OH (human recombinant)]	96 (89 + C) Overnight + 100 min / 50 µL
3791	Medizym® anti-ZnT8	quantitative determination of antibodies against Zinc Transporter 8 (ZnT8) in human serum [microtiter plate coated with ZnT8]	96 (89 + C) Overnight + 100 min / 25 µL
3802	Medizym® anti-GAD	quantitative determination of antibodies against Glutamic Acid Decarboxylase (GAD65) in human serum [microtiter plate coated with GAD65 (human recombinant)]	96 (89 + C) 160 min / 25 µL
3803	Medizym® anti-IA2	quantitative determination of antibodies against Protein Tyrosine Phosphatase (IA2) in human serum [microtiter plate coated with IA2 (human recombinant)]	96 (90 + C) Overnight + 100 min / 50 µL
3804	Medizym® ICAscreen	semi-quantitative determination of antibodies against islet cell antigens in human serum [microtiter plate coated with islet cell (IC) antigens]	96 (93 + C) Overnight + 100 min / 50 µL
3806	Medizym® IAA	quantitative determination of IgG antibodies against Insulin in human serum [microtiter plate coated with human recombinant insulin]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4018	Medizym® Tg Rem	quantitative determination of Thyroglobulin (Tg) in human serum [microtiter plate coated with antibodies to thyroglobulin (mouse, monoclonal)]	96 (86 + C) Overnight + 165 min / 25 µL

# Gastroenterology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
3600	Anti-Intrinsic Factor	quantitative determination of IgG antibodies against intrinsic factor in human serum [microtiter plate coated with intrinsic factor]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
3610	Anti-GPC	quantitative determination of IgG antibodies against gastric parietal cells in human serum [microtiter plate coated with H <sup>+</sup> /K <sup>+</sup> -ATPase ( $\alpha$ - und $\beta$ subunit)]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
3710	GliaDea IgA	quantitative determination of IgA antibodies against deamidated gliadin in human serum [microtiter plate coated with deamidated gliadin]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
3750	Anti-GP2 IgA	quantitative determination of IgA antibodies against glycoprotein 2 (GP2) in human serum [microtiter plate coated with GP2]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
3810	GliaDea IgG	quantitative determination of IgG antibodies against deamidated gliadin in human serum [microtiter plate coated with deamidated gliadin]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
3850	Anti-GP2 IgG	quantitative determination of IgG antibodies against glycoprotein 2 (GP2) in human serum [microtiter plate coated with GP2]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
3950	Pancreatitis GP2	quantitative determination of glycoprotein 2 (GP2) in human serum [microtiter plate coated with anti-GP2]	96 (90 + C) 105 min / 100 µL
4006	ASCA IgA	quantitative and qualitative determination of IgA antibodies against Saccharomyces cerevisiae, mannan (ASCA) in human serum [microtiter plate coated with mannan of Saccharomyces cerevisiae]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4007	ASCA IgG	quantitative and qualitative determination of IgG antibodies against Saccharomyces cerevisiae, mannan (ASCA) in human serum [microtiter plate coated with mannan of Saccharomyces cerevisiae]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4033	Anti-huTransG	quantitative determination of IgA antibodies against tissue transglutaminase in human serum [microtiter plate coated with tissue transglutaminase and gliadin traces]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4035	CeliAK EmA human	quantitative determination of IgA antibodies against human endomysial autoantigens (EmA) [microtiter plate coated with purified human EmA autoantigen and gliadin fragments]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4044	Anti-hu tTG IgG	quantitative determination of IgG antibodies against tissue transglutaminase in human serum [microtiter plate coated with tissue transglutaminase and gliadin traces]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4045	CeliAK EmA human IgG	quantitative determination of IgG antibodies against human endomysial autoantigens (EmA) [microtiter plate coated with purified human EmA autoantigen and gliadin fragments]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
6012 6013	Helicobacter pylori Antigen	qualitative determination of Helicobacter pylori antigen in fecal samples [MTP coated with anti-Helicobacter pylori antibodies]	48 (45 + C) / 96 (93 + C)

## Hepatology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
3900	Anti-ASGPR	semi-quantitative determination of IgG antibodies against asialoglycoprotein receptor in human serum [microtiter plate coated with ASGPR]	96 (93 + C) 105 min / 100 µL of 1:100 dil.
4052	Anti-M2	quantitative determination of IgG antibodies against mitochondrial antigen M2 in human serum [microtiter plate coated with M2 antigen (PDC-E2, OGDC-E2, and BCOADC-E2)]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4053	Anti-LKM-1	quantitative determination of IgG antibodies against cytochrome p450 IID6 in human serum [microtiter plate coated with LKM-1 (cytochrome P450 IID6)]	96 (89 + C) 105 min / 100 µL of 1:100 dil.

## Infectiology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
3920	GA CoV-2 IgG	semi-quantitative determination of IgG antibodies against SARS-Co coronavirus 2 (SARS-CoV-2) in human serum and plasma [microtiter plate coated with Spike and Nucleocapsid antigens of SARS-CoV-2 (recombinant)]	96 (91 + C) 105 min / 10 µL
3930	GA CoV-2 IgM	semi-quantitative determination of IgM antibodies against SARS-Co coronavirus 2 (SARS-CoV-2) in human serum and plasma [microtiter plate coated with Spike and Nucleocapsid antigens of SARS-CoV-2 (recombinant)]	96 (91 + C) 105 min / 200 µL of 1:40 dil.
3940	GA CoV-2 IgG +	semi-quantitative determination of the IgG antibodies specificity to immunodominant antigens against SARS-CoV-2 in human serum and plasma previously tested positive for IgG antibodies [microtiter plate coated separately with Spike Glycoprotein 1, Spike Glycoprotein 2 and Nucleocapsid antigens of SARS-CoV-2 (recombinant)]	24 x 4 (22 + C) 105 min / 200 µL of 1:20 dil.

## Nephrology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4067	Anti-Faktor H	quantitative determination of IgG antibodies against complement factor H in human serum [microtiter plate coated with complement factor H]	48 (41 + C) 105 min / 100 µL of 1:100 dil.

## Neurology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
3104	Medizym® anti-AChR	quantitative determination of antibodies against acetyl-choline receptor in human serum [microtiter plate coated with monoclonal AChR antibodies, pre-absorption with AChR preparation]	96 (41 + C, duplicate detection necessary) Overnight + 180 min / 100 µL

## Rheumatology

### Anti-Phospholipid Syndrome

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4014	Anti-Cardiolipin Screen	semi-quantitative determination of IgG, IgM and IgA antibodies (screening) against cardiolipin in human serum [microtiter plate coated with cardiolipin and 2 GP I]	96 (93 + C) 105 min / 100 µL of 1:100 dil.
4016	Anti-Cardiolipin	quantitative determination of IgG or IgM antibodies against cardiolipin in human serum [microtiter plate coated with cardiolipin and β2 GP I]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4036	Anti-β2-GP-I Screen	semi-quantitative determination of IgG, IgM and IgA antibodies (screening) against β2 glycoprotein-I in human serum [microtiter plate coated with β2 glycoprotein-I]	96 (93 + C) 105 min / 100 µL of 1:100 dil.
4041	Anti-β2-GP-I	quantitative determination of IgG or IgM antibodies against β2 glycoprotein-I in human serum [microtiter plate coated with β2 glycoprotein-I]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4050	Anti-Phospholipid screen	quantitative determination of IgG or IgM antibodies against phospholipids (cardiolipin, phosphatidyl-serine, -inositol, -ethanolamine, phosphatidic acid) in human serum [microtiter plate coated with β2 GP I, cardiolipin, phosphatidyl-serine, -inositol, -ethanolamine and phosphatidic acid]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4056	Anti-Phosphatidyl-Serin	quantitative determination of IgG or IgM antibodies against phosphatidylserine in human serum [microtiter plate coated with phosphatidylserine and β2 glycoprotein]	96 (89 + C) 105 min / 100 µL of 1:100 dil.

### Connective Tissue Diseases

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4010	ANAscreen	semi-quantitative simultaneous determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [microtiter plate with HeLa cell nuclei and nuclear antigens]	96 (93 + C) 105 min / 100 µL of 1:100 dil.
4012	ANapro	semi-quantitative separate determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [microtiter plate coated with ds-DNA, RNP (68kDa, A, C), Sm, SS-A (60kDa), SS-B, Scl-70, CENP-B, Jo-1]	12 x 8 (10 + C) 105 min / 100 µL of 1:100 dil.

## Rheumatoid and Juvenile Arthritis

<b>REF</b>	<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>DETERMINATIONS</b>
4027	RF IgA	quantitative determination of IgA antibodies against rheumatoid factor (RF) in Fc region of IgG in human serum [microtiter plate coated with rabbit IgG]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4085	RF IgG	quantitative determination of IgG antibodies against rheumatoid factor (RF) in Fc region of IgG in human serum [microtiter plate coated with rabbit IgG]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4046	RF IgM	quantitative determination of rheumatoid factor (RF) IgM antibodies against Fc region of IgG in human serum [microtiter plate coated with rabbit IgG]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
3665	Anti-CCP	quantitative determination of IgG antibodies against cyclic citrullinated peptides (CCP) in human serum [microtiter plate coated with CCP antigens]	96 (89 + C) 105 min / 100 µL 1:100 VV

## Systemic Lupus Erythematoses

<b>REF</b>	<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>DETERMINATIONS</b>
4015	Anti-dsDNA	qualitative and quantitative determination of IgG antibodies against double-stranded deoxyribonucleic acid (dsDNA) in human serum [microtiter plate coated with dsDNA]	96 (89 + C) 105 min / 100 µL of 1:100 dil.

## Vasculitis

<b>REF</b>	<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>DETERMINATIONS</b>
4058	Anti-MPO	qualitative and quantitative determination of IgG antibodies against myeloperoxidase (MPO) in human serum [microtiter plate coated myeloperoxidase (MPO)]	96 (89 + C) 105 min / 100 µL of 1:100 dil.
4259	Anti-PR3 hs	qualitative and quantitative determination of IgG antibodies against proteinase 3 (PR3) in human serum [microtiter plate coated with proteinase 3 (PR3)]	96 (89 + C) 105 min / 100 µL of 1:100 dil.

# LINE & Dot

## Automated assays for DotDiver2.0



### Gastroenterology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
5014	DotDiver CeliAK IgA	determination of IgA antibodies against deamidated gliadin and tissue transglutaminase in human serum [membrane coated with tissue transglutaminase and deamidated gliadin]	24 x 2 64 min / 10 µL DotDiver2.0
5214	DotDiver CeliAK IgA	determination of IgA antibodies against deamidated gliadin and tissue transglutaminase in human serum [membrane coated with tissue transglutaminase and deamidated gliadin]	24 (3 x 8) 64 min / 10 µL DotDiver2.0
5015	DotDiver CeliAK IgG	determination of IgG antibodies against deamidated gliadin and antibodies to tissue transglutaminase in human serum [membrane coated with tissue transglutaminase and deamidated gliadin]	24 x 2 64 min / 10 µL DotDiver2.0
5019	DotDiver BiermAK	determination of IgG antibodies against intrinsic factor and parietal cell antigen in human serum [membrane coated with intrinsic factor and H+/K+ ATPase]	24 x 2 64 min / 10 µL DotDiver2.0

### Hepatology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
5021	DotDiver HepAK 7 plus	determination of IgG antibodies against M2, LKM1, LC1, SLA, F-actin, gp210 and sp100 in human serum	24 x 7 64 min / 10 µL DotDiver2.0
5070	DotDiver HepAK 10	determination of IgG antibodies against M2/nPDC, M2/OGDC-E2, M2/BCOADC-E2, M2/PDC-E2, gp210, sp100, LKM1, LC1, SLA and F-actin in human serum	24 x 10 64 min / 10 µL DotDiver2.0

## Neurology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
50301	DotDiver Anti- Gangliosid screen	determination of IgG/IgM antibodies against gangliosides in human serum [membrane coated with sulfatides, GM1, GM2, GM3, GM4, GD1a, GD1b, GD2, GD3, GT1a, GT1b, and GQ1b]	24 x 12 96 min / 10 µL DotDiver2.0
50381	DotDiver Anti- Gangliosid IgG	determination of IgG antibodies against gangliosides in human serum [membrane coated with sulfatides, GM1, GM2, GM3, GM4, GD1a, GD1b, GD2, GD3, GT1a, GT1b, and GQ1b]	24 x 12 96 min / 10 µL DotDiver2.0
50391	DotDiver Anti- Gangliosid IgM	determination of IgM antibodies against gangliosides in human serum [membrane coated with sulfatides, GM1, GM2, GM3, GM4, GD1a, GD1b, GD2, GD3, GT1a, GT1b, and GQ1b]	24 x 12 96 min / 10 µL DotDiver2.0

## Rheumatology

### Anti-Phospholipid Syndrome

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
50401	DotDiver Anti- Phospholipid IgG	determination of IgG antibodies against phospholipids and serum proteins in human serum [membrane coated with cardiolipin, phosphatidic acid, phosphatidyl-ethanolamine, -glycerol, -inositol, -serine, annexin V, β2GPI, prothrombin]	24 x 9 66 min / 30 µL DotDiver2.0
50411	DotDiver Anti- Phospholipid IgM	determination of IgM antibodies against phospholipids and serum proteins in human serum [membrane coated with cardiolipin, phosphatidic acid, phosphatidyl-ethanolamine, -glycerol, -inositol, -serine, annexin V, β2GPI, prothrombin]	24 x 9 66 min / 30 µL DotDiver2.0

### Connective Tissue Diseases

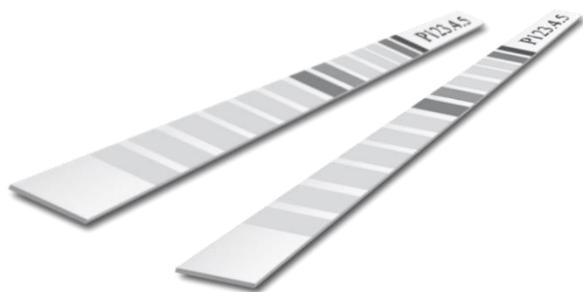
REF	PRODUCT	DESCRIPTION	DETERMINATIONS
5016	DotDiver ANA	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [membrane coated with Sm, Sm/RNP, SS-A, SS-B, Jo-1, Scl-70, PM-Scl-100 and CENP-A/B]	24 x 8 64 min / 10 µL DotDiver2.0
5017	DotDiver PmScl	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [membrane coated with Jo-1, PL-7, PL-12, SRP, PMScl, Ku, Mi-2, Scl-70]	24 x 8 64 min / 10 µL DotDiver2.0
5020	DotDiver Quantrix ANA	determination of IgG antibodies against nucleosome, dsDNA, histones, Sm, RNP (68kD/A/C), Sm/RNP, SSA/Ro 60kD, SSA/Ro 52kD, SSB, Scl-70, Ku, PM-Scl 100, Mi-2, Jo-1, PL-7, PL-12, SRP, Ribosomes, CENP-A/B, PCNA, sp100, gp210, M2 recombinant, M2/nPDC and F-actin in human serum	24 x 25 64 min / 10 µL DotDiver2.0
5035	DotDiver ANA PCNA	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [membrane coated with Sm, RNP, Sm/RNP, SS-A, SS-B, Jo-1, Scl-70, PM-Scl, Ku, CENP-A/B, PCNA and Ribosome P0]	24 x 12 64 min / 10 µL DotDiver2.0

<b>REF</b>	<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>DETERMINATIONS</b>
5045	DotDiver PmScl 12	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [membrane coated with Jo-1, PL-7, PL-12, EJ, SRP-54, Mi-2, MDA-5, TIF1-γ, Ku, PM-Scl 100, Scl-70 and SSA/Ro52]	24 x 12 64 min / 10 µL DotDiver2.0
5066	DotDiver ANAcryo 10	determination of IgG antibodies against Jo-1, PL-7, PL-12, EJ, OJ, KS, ZO, HA, SRP and P0 in human serum [membrane coated with Jo-1, PL-7, PL-12, EJ, OJ, KS, ZO, HA, SRP, P0]	24 x 10 64 min / 10 µL DotDiver2.0
5069	DotDiver Scleroderma 10	determination of IgG antibodies against Scl-70, CENP-A, CENP-B, PM/Scl-100, PM/Scl-75, Ku, RNA Polymerase III, RNP (68kD/A/C), Fibrillarin and Th/To in human serum	24 x 10 64 min / 10 µL DotDiver2.0
5093	DotDiver Myositis 12	determination of IgG antibodies against Jo-1, PL-7, PL-12, EJ, SRP, Mi-2, MDA-5, TIF1-γ, SSA/Ro52kD, SAE1, SAE2 and NXP-2 in human serum [membrane coated with Jo-1, PL-7, PL-12, EJ, SRP, Mi-2, MDA-5, TIF1-γ, SSA/Ro52kD, SAE1, SAE2, NXP-2]	24 x 12 64 min / 10 µL DotDiver2.0

## Vasculitis

<b>REF</b>	<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>DETERMINATIONS</b>
5018	DotDiver ANCA	determination of IgG antibodies against Myeloperoxidase (MPO), Proteinase 3 (PR3) and Glomerular Basement Membrane protein (GBM) in human serum	24 x 3 64 min / 10 µL DotDiver2.0

# Manual Assays



## Gastroenterology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4202	CeliAK IgG LINE	determination of IgG antibodies against deamidated gliadin and tissue transglutaminase in human serum [membrane coated with tissue transglutaminase, and deamidated gliadin]	20 x 2 75 min / 10 µL
4208	CeliAK IgA LINE	determination of IgA antibodies against deamidated gliadin and tissue transglutaminase in human serum [membrane coated with tissue transglutaminase, and deamidated gliadin]	20 x 2 75 min / 10 µL
4220	BiermAk LINE	determination of IgG antibodies against intrinsic factor and parietal cell antigen in human serum [membrane coated with intrinsic factor and H+/K+ ATPase]	20 x 2 75 min / 20 µL
4290	Gastro 5 LINE	determination of IgG and/or IgA antibodies against deamidated gliadin, tissue transglutaminase, Saccharomyces cerevisiae, mannan (ASCA), intrinsic factor and parietal cell antigen in human serum	20 x 5 75 min / 10 µL

## Hepatology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4030	HepAK <sup>plus</sup> Dot	determination of IgG antibodies against M2, LKM1, LC1, SLA, and F-actin in human serum	24 x 5 80 min / 10 µL
4099	HepAK 7 <sup>plus</sup> Dot	determination of IgG antibodies against M2, LKM1, LC1, SLA, F-actin, gp210 and sp100 in human serum	24 x 7 80 min / 10 µL

## Neurology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
5003	Anti-Gangliosid Dot	determination of IgG or IgM antibodies against gangliosides in human serum [membranes coated with GM1, GM2, GM3, GM4, GD1a, GD1b, GD2, GD3, GT1a, GT1b, GQ1b, sulfatides]	20 x 12 120 (4°C) - 60 (4°C) -10 min / 10 µL

# Rheumatology

## *Anti-Phospholipid Syndrome*

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
5012	Anti- Phospholipid 10 Dot	determination of IgG- or IgM antibodies against phospholipids and serum proteins in human serum [membrane coated with cardiolipin, phosphatidic acid, phosphatidyl-choline, -ethanolamine, -glycerol, -inositol, -serine, annexin V, β2-GP I, prothrombin]	20 x 10 55 min / 30 µL

## *Connective Tissue Diseases*

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4049	PmScl <sup>plus</sup> Dot	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [membrane coated with Jo-1, PL-7, PL-12, SRP, PMScl, Ku, Mi-2, Scl-70]	24 x 8 80 min / 10 µL
4074	ANAScl <sup>plus</sup> Dot	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [membrane coated with Sm, Sm/RNP, SS-A, SS-B, PMScl, Ku, Jo-1, CENP-A/B, PCNA, Scl-70]	24 x 10 80 min / 10 µL
4289	ANA 12 LINE	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [membrane coated with dsDNA, nucleosome, histones, Sm, SS-A/Ro 60, SS-A/Ro 52, SS-B, P0, Jo-1, RNP (68 kD, A, C), Scl-70, CENP-B]	20 x 12 75 min / 20 µL
4291	ANA 18 LINE	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [membrane coated with dsDNA, nucleosome, Sm, Sm/RNP, P0, histone, RNP (68 kD, A, C), SS-A/Ro60, SS-A/Ro 52, SS-B, Scl-70, PMScl, CENP-A/B, PCNA, Jo-1, M2, f-Actin, DFS-70]	20 x 18 75 min / 10 µL

## *Vasculitis*

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4028	ANCA Dot	determination of IgG antibodies against Myeloperoxidase (MPO), Proteinase 3 (PR3) and Glomerular Basement Membrane protein (GBM) in human serum	24 x 3 80 min / 10 µL

# RIA



## Endocrinology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
1301	SELco® Tg 1 step	determination of Thyroglobulin (Tg) in human serum [Biotinylated and 125-Iodine-anti-hTg]	100 (92 + C) Overnight / 100 µL
1450	SELco® TSH rapid	determination of Thyrotropin (TSH) in human serum [Biotinylated and 125-Iodine-anti-hTSH]	100 (91 + C) 30 min / 100 µL
1630	SELco® Calcitonin	quantitative determination of Calcitonin (hCT) in human serum [Biotinylated and 125-Iodine-anti-hCalcitonin]	100 (92 + C) 18-24h / 100 µL
1652	SELco® FT3	determination of free Triiodothyronine (FT3) in human serum [Tubes coated with T3 protein / Tracer (125-Iodine anti-T3)]	100 (92 + C) 60 min / 100 µL
1881	SELco® FT4	determination of free Thyroxine (FT4) in human serum [Tubes coated with T4 protein / Tracer (125-Iodine anti-T4)]	100 (92 + C) 60 min / 50 µL
2035	CentAK® anti-IAA M	quantitative determination of antibodies against Insulin (IAA) in human serum [125-Iodine-Insulin (human) / protein A]	100 (93 + C) Overnight + 60 min 20 µL
2042	SELco® TRAb human 1 step	determination of TSH receptor antibodies (TRAb) in human serum [Tubes coated with TSH receptor (human) / Tracer (125-Iodine-aTSHR)]	100 (94 + C) 120 min / 100 µL
2050 2150	CentAK® anti-IA2 M	quantitative determination of antibodies against Protein Tyrosine Phosphatase IA2 (IA2 Ab) in human serum [125-Iodine-IA2 (human, recombinant) / protein A]	50 (43 + C) / 100 (93 + C) Overnight + 60 min 20 µL
2070 2071	CentAK® anti-GAD <sub>65</sub> M	quantitative determination of antibodies against Glutamic Acid Decarboxylase (GAD65 Ab) in human serum [125-Iodine-GAD65 (human, recombinant) / protein A]	100 (42 + C) / 50 (92 + C) 180 min / 20 µL
2080	SELco® anti-TPO human	determination of antibodies against Thyroid Peroxidase (TPO Ab) in human serum [Tubes coated with anti-TPO / Tracer (125-Iodine-hTPO)]	100 (92 + C) 120 min / 10 µL
2085	SELco® anti-Tg human	determination of antibodies against Thyroglobulin (Tg Ab) in human serum [Tubes coated with anti-hTg / Tracer (125-Iodine-hTg)]	100 (92 + C) 120 min / 100 µL

# IFA

## Manual Assays



### Dermatology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
86148	ASA IFA	determination of IgG antibodies against skin antigens (ASA) in human diluted serum [slides with monkey tissue sections (esophagus)]	48 (12 x 4) 60 min / 50 µL

### Gastroenterology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
8064	CytoBead® CeliAK	determination of IgA or IgG antibodies against endomysium (EmA), transglutaminase 2 and deamidated gliadin as well for the control of total IgA antibodies in human serum [slides with monkey tissue sections (esophagus) and beads coated with TG2, DG and anti-IgA]	48 (6 x 8) 60 min / 70 µL
85848	ICA IFA	determination of IgG antibodies against Islet cells (ICA) in human serum [slides with monkey tissue sections (pancreas)]	48 (12 x 4) 60 min / 50 µL
86048 86096	EmA IFA	determination of IgA antibodies against endomysium (EmA) in human serum [slides with monkey tissue sections (esophagus)]	48 (12 x 4)/ 96 (12 x 8) 60 min / 20 µL

## Hepatology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
83048	AMA IFA	determination of anti-mitochondrial antibodies (AMA) in human serum [slides with tissue sections (rat kidney)]	48 (12 x 4) 60 min / 10 µL
84048	ASMA IFA	determination of antibodies to the smooth muscle (ASMA) in human serum [slides with tissue sections (rat stomach)]	48 (12 x 4) 60 min / 10 µL

## Neurology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
8049	Anti-MuSK IFA	determination of antibodies against muscle specific tyrosine kinase (MuSK) [Slides with transfected (HEp-2 MuSK) and untransfected (HEp-2) cells]	60 (10 x 6) 60 min / 10 µL

## Rheumatology

### Connective Tissue Diseases

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
8065	CytoBead® ANA	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [slides with HEp-2 cells and beads coated with dsDNA, Scl-70, SS-A/Ro60, SS-A/Ro52, SS-B, CENP-B, Sm, Sm/RNP]	48 (6 x 8) 60 min / 5 µL
8220	CytoBead® ANA 2	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [slides with HEp-2 cells and beads coated with dsDNA, Scl-70, SS-A/Ro60, SS-A/Ro52, SS-B, Jo-1, Sm, Sm/RNP]	48 (6 x 8) 60 min / 5 µL
8260	CytoBead® ANA DFS-70	determination of antibodies against nuclear and cytoplasmic antigens in human serum [slides with HEp-2 cells and beads coated with DFS-70]	80 (10 x 8) 60 min / 5 µL
8101 81040	ANA HEp-2 plus	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [slides with HEp-2 cells]	120 (10 x 12) / 480 (40 x 12) 60 min / 5 µL
81050 81100	nDNA IFA plus	determination of IgG antibodies against native DNA in human serum [slides with Crithidia luciliae cells]	60 (10 x 6) / 120 (10 x 12) 60 min / 20 µL
85048 85096	Triple IFA	determination of IgG antibodies in human serum [slides with rat tissue sections (liver / stomach / kidney)]	48 (12 x 4) / 96 (12 x 8) 60 min / 10 µL

<b>REF</b>	<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>DETERMINATIONS</b>
8063	CytoBead® ANCA	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA) and glomerular basement membrane (GBM) in human serum [slides with human granulocytes (ethanol fixed) and beads coated with PR3, MPO and GBM]	48 (6 x 8) 60 min / 10 µL
8066	CytoBead® RPGN	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA), the glomerular basement membrane (GBM) and double stranded deoxyribonucleic acid (dsDNA) in human serum [slides with human granulocytes (ethanol fixed) and beads coated with PR3, MPO, GBM and dsDNA]	48 (6 x 8) 60 min / 10 µL
86448	Anti-GBM IFA	determination of IgG antibodies against the glomerular basal membrane (GBM) in human serum [slides with monkey tissue sections (kidney)]	48 (12 x 4) 60 min / 50 µL
87061	cANCA IFA plus	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA) in human serum [slides with human granulocytes, ethanol fixed]	60 (10 x 6) 60 min / 10 µL
87161	pANCA IFA plus	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA) in human serum [slides with human granulocytes, formalin fixed]	60 (10 x 6) 60 min / 10 µL
87261	ANCA IFA dual	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA) in human serum [slides with human granulocytes, ethanol fixed as well as formalin fixed]	120 (10 x 12) 60 min / 10 µL

# Automated Assays



## Dermatology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4125	AKLIDES® ASA	determination of IgG antibodies against skin antigens (ASA) in human diluted serum [slides with monkey tissue sections (esophagus)]	48 (12 x 4) 60 min / 10 µL

## Gastroenterology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4129	AKLIDES® ICA	determination of IgG antibodies against Islet cells (ICA) in human serum [slides with monkey tissue sections (pancreas)]	48 (12 x 4) 60 min / 50 µL
4131	AKLIDES® EmA	determination of IgA antibodies against endomysium (EmA) in human serum [slides with monkey tissue sections (esophagus)]	48 (12 x 4) / 96 (12 x 8) 60 min / 10 µL
4271	AKLIDES® CytoBead® CeliAK	determination of IgA or IgG antibodies against endomysium (EmA), transglutaminase 2 and deamidated gliadin as well for the control of total IgA antibodies in human serum [slides with monkey tissue sections (esophagus) and beads coated with TG2, DG and anti-IgA]	48 (6 x 8) 60 min / 10 µL

## Hepatology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4117	AKLIDES® AMA	determination of anti-mitochondrial antibodies (AMA) in human serum [Slides with rat kidney sections]	48 (12 x 4) 60 min / 10 µL
4119	AKLIDES® ASMA	determination of IgG antibodies against the smooth muscle (ASMA) in human serum [slides with tissue sections (rat stomach)]	48 (12 x 4) 60 min / 10 µL
4121	AKLIDES® Triple	determination of IgG antibodies in human serum [slides with rat tissue sections (liver / stomach / kidney)]	48 (12 x 4) / 96 (12 x 8) 60 min / 10 µL

## Nephrology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4123	AKLIDES® Anti-GBM	determination of IgG antibodies against the glomerular basement membrane (GBM) in human serum [slides with monkey kidney sections]	48 (12 x 4) 60 min / 50 µL

## Rheumatology

### Connective Tissue Diseases

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4065	AKLIDES® ANA plus	determination of IgG antibodies against nuclear (ANA) and cytoplasmic antigens in human serum [slides with HEp-2 cells]	120 (10 x 12) / 480 (40 x 12) 60 min / 5 µL
4272	AKLIDES® CytoBead® ANA	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [slides with HEp-2 cells and beads coated with dsDNA, Scl-70, SS-A/Ro60, SS-A/Ro52, SS-B, CENP-B, Sm, Sm/RNP]	80 (10 x 8) 60 min / 5 µL
4277	AKLIDES® CytoBead® ANA 2	determination of IgG antibodies against nuclear and cytoplasmic antigens in human serum [slides with HEp-2 cells and beads coated with dsDNA, Scl-70, SS-A/Ro60, SS-A/Ro52, SS-B, Jo-1, Sm, Sm/RNP]	80 (10 x 8) 60 min / 5 µL

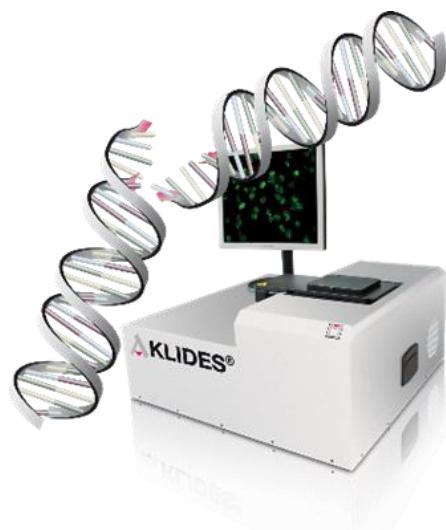
## Systemic Lupus Erythematoses

<b>REF</b>	<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>DETERMINATIONS</b>
4282	<b>AKLIDES® nDNA</b>	determination of IgG antibodies against native DNA in human serum [slides with <i>Critchidia lucilliae</i> cells]	60 (10 x 6)/ 120 (10 x 12) 60 min / 10 µL
4283			

## Vasculitis

<b>REF</b>	<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>DETERMINATIONS</b>
4060	<b>AKLIDES® cANCA</b>	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA) in human serum [slides with human granulocytes, ethanol fixed]	60 (10 x 6) 60 min / 10 µL
4072	<b>AKLIDES® pANCA</b>	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA) in human serum [slides with human granulocytes, formalin fixed]	60 (10 x 6) 60 min / 10 µL
4270	<b>AKLIDES® CytoBead® ANCA</b>	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA) and glomerular basement membrane (GBM) in human serum [slides with human granulocytes (ethanol fixed) and beads coated with PR3, MPO and GBM]	48 (6 x 8) 60 min / 10 µL
4281	<b>AKLIDES® CytoBead® RPGN</b>	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA), the glomerular basement membrane (GBM) and double stranded deoxyribonucleic acid (dsDNA) in human serum [slides with human granulocytes (ethanol fixed) and beads coated with PR3, MPO, GBM and dsDNA]	48 (6 x 8) 60 min / 10 µL
4472	<b>AKLIDES® ANCA dual</b>	determination of IgG antibodies against neutrophil cytoplasmic antigens (ANCA) in human serum [slides with human granulocytes, ethanol fixed as well as formalin fixed]	120 (10 x 12) 60 min / 10 µL

# Automated Assays



## AKLIDES® Cell Damage

For research use only

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
4162	AKLIDES® Nuk Human Lymphocyte Complete HLC	quantitative staining and determination of γ-H2AX in lymphocytes derived from whole blood	60 (10 x 6) 310 min / 12 mL
4268	AKLIDES® Nuk Human Lymphocyte Complete Combi HLCC	quantitative staining and determination of γ-H2AX and 53BP1 in lymphocytes derived from whole blood	60 (10 x 6) 310 min / 12 mL
4278	AKLIDES® Nuk Human Lymphocyte Isolation HLI	Lymphocyte isolation from whole blood	60 (10 x 6) 95 min / 6mL
4362	AKLIDES® Nuk Capillary Blood Human Lymphocyte CBHL	quantitative staining and determination of γ-H2AX and 53BP1 in lymphocytes from capillary blood	30 (5 x 6)

# Rapid Tests

## Lateral Flow



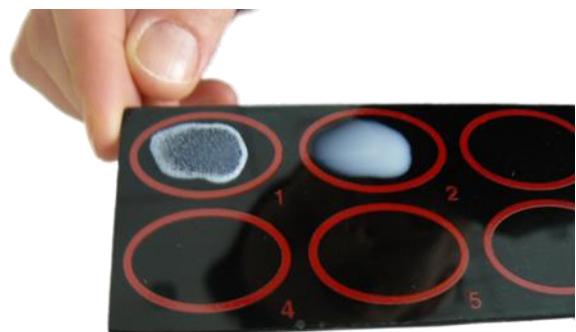
## Infectiology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
6103	Rotadeno Antigen Quick	determination of Rotavirus and Adenovirus antigen in fecal samples [Test strip with anti-rotavirus and anti-adenovirus antibodies]	25 10 min 5 mm stool
6109	Influenza Antigen Quick	detection of Influenza virus type A and type B antigen in nasal and nasopharyngeal specimens (swab, wash and aspirate) [Test strip with antibodies to Influenza virus type A and type B]	25 10 min 1 nasopharyngeal
3985	GA CoV-2 Antigen Rapid Test	detection of SARS-Coronavirus 2 (COVID-19) Antigen in human nasopharynx specimen [Test cassette coated with antibodies to SARS-CoV-2 (Nucleocapsid), conjugated to microparticles and immobilized at the membran]	20 15 min 1 nasopharyngeal
3987	GA CoV-2 Antigen Rapid Nasal	determination of SARS-Coronavirus 2 (COVID-19) Antigen in human nasal specimen [Test cassettes, coated with antibodies to SARS-CoV-2 (Nucleocapsid), conjugated to microparticles and immobilized at the membrane]	20 15 min 1 nasal

## Gastroenterology

REF	PRODUCT	DESCRIPTION	DETERMINATIONS
6110	Helicobacter Antigen Quick	qualitative determination of Helicobacter pylori antigen in fecal samples [Test strip with anti-Helicobacter pylori antibodies]	25 5 min / 5 mm stool
6118	Calprotectin Rapid	detection of human calprotectin in stool samples [Test cassettes coated with anti-calprotectin antibodies]	1/10 10 min / 1-2 g/mL stool

# Latex Tests



REF	PRODUCT	DESCRIPTION	DETERMINATIONS
3021 3321	D-Dimer Latex	detection of circulating derivatives of cross-linked fibrin degradation products (XL-FDP) in human plasma [Latex particles coated with anti-D-Dimer antibodies]	50 / 100 3 min / 20 µL
4095	CRP Latex	detection of C-reactive protein (CRP) in human serum [Latex particles coated with anti-CRP]	100 2 min / 40 µL
4096	RF Latex	detection of Rheumatoid Factor (RF) in human serum [Latex particles coated with human IgG]	100 2 min / 40 µL

# IFA Platform Technology

## Application - Immunology



### AKLIDES®

DEVICE REF	4319
Description	Fully automated system for standardized immunofluorescence imaging and data processing
Size / Weight	65 cm x 67 cm x 32 cm (L x W x H) / 78 kg
Illumination	4 wavelengths LED
Objectives	2 different objectives
Filter sets	blue / green / orange / red
Slide amount	Motorized x-y stage for 5 slides
Analysis	Pattern, intensity, end-point-titre, cell & tissue imaging
Parameters	ANA, c/pANCA, nDNA, CytoBead®, Tissue
Report	Overall report & single report, documentation, archival storage
Connectivity	Pipettor (AKENOMI® NEO), LIMS, AKLIDES® system software (reading and evaluation)

### AKLIDES® - Calibration slides

80551	AKLIDES® Intensity calibration
4166	AKLIDES® x-y-z calibration
3897	AKLIDES® Trim slides

### AKLIDES® - Scanner

81238	Barcode reader
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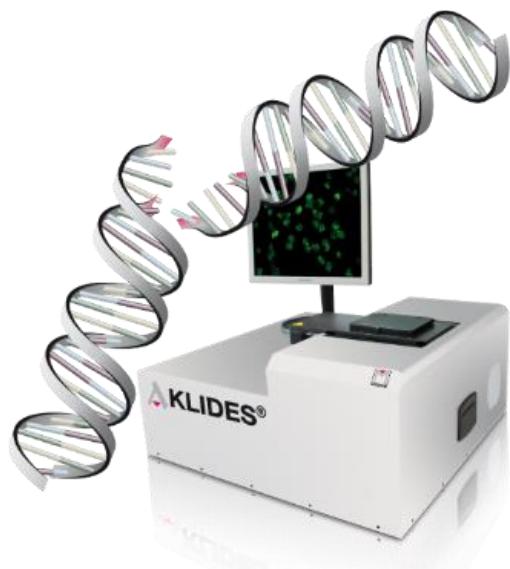
# *Application Immunology*



## **akiron® NEO**

<b>DEVICE REF</b>	<b>4450</b>
Indication	Autoimmune diseases
Description	Fully automated system for standardized immunofluorescence imaging and data processing
Size / Weight	32 cm x 28 cm x 46 cm (L x W x H) / 15 kg
Illumination	3 wavelengths LED
Objectives	Motorized fluorescence microscope with 20x objective
Filter sets	blue / green / red
Slide amount	Motorized x-y stage for 2 slides
Analysis	Pattern, intensity, end-point-titre, cell & tissue imaging
Parameters	ANA, c/pANCA, CytoBead®, Tissue
Report	Overall report & single report, documentation, archival storage
Connectivity	Pipettor (AKENOMI® NEO), LIMS, AKLIDES® system software (reading and evaluation)

## *Application - Cell Damage*



### **AKLIDES® Cell Damage**

<b>DEVICE REF</b>	<b>4319</b>
Product Code	4327 Cell Damage Hardware upgrade
Indication	DNA double strand breaks   Oncology   Stress study
Description	Standardized and automatic determination of DNA double strand breaks using immunofluorescence
Size / Weight	65 cm x 67 cm x 32 cm (L x W x H) / 78 kg
Illumination	4 wavelengths LED
Objectives	4 different objectives
Filter sets	blue / green / orange / red
Slide amount	Motorized x-y stage for 5 slides
Analysis	Image acquisition
Parameters	Cell damage
Report	Overall report & single report, documentation, archival storage
Connectivity	Pipettor (AKENOMI® NEO), LIMS, AKLIDES® system software (reading and evaluation)

### **AKLIDES® - Calibration slides**

80551	AKLIDES® / Intensity calibration slides
4166	AKLIDES® / x-y-z calibration slides
3897	AKLIDES® / Trim slides

# Fluorescence microscope



## GAlux

DEVICE REF	7996
Observation tube	Widefield trinocular 30° (F.N. 20) - light distribution 100:0/20:80
Inter pupillary distance	48 - 75 mm
Rackless stage	180 x 170 mm surface, 80 x 55 mm movement (X&Y range), coaxial controls
Condenser	N.A. 0.9/1.25 Abbe condenser with slider slot
Focusing block	Brass gears, Z-axis movement with 20 mm stroke, fine focus in 2 µm minimum increments
Illumination	Interchangeable 6 V/30 W Quartz Halogen or 3 W LED Koehler illumination with intensity adjustment
Dimensions	500 x 220 x 400 mm (H x W x D with camera)
Power supply	100 - 240 V (CE)

# Pipettor



## AKENOMI® NEO

DEVICE REF	4459
Indication	IFA Diagnostics
Description	Fully Automated IFA Processor for the AKLIDES® Systems
Size / Weight	66 cm x 74 cm x 82.5 cm (W x D x H) / 65 kg
Slide capacity	12
Sample capacity	64 samples
Barcode reader	1D and 2D
Dilution levels	256
Parameters	ANA, c/pANCA, nDNA, CytoBead®, Tissue
Method	Method capacity up to 4 methods in parallel
Report	Overall report & single report, documentation, archival storage
Connectivity	LIMS, AKLIDES® system software (reading and evaluation)

# LINE Automation



## DotDiver2.0

DEVICE REF	5075
Indication	Systemic inflammatory rheumatic diseases, gastroenterology, neuropathies, anti-phospholipid syndrome, vasculitis, nephritis, myositis, scleroderma, autoimmune hepatitis
Description	Compact, integrated system for automated LINE/Dot immunoassays
Size / Weight	34 x 42 x 36.5 cm (L x W x H) / 15 kg
Format	Antigen coated strips   Ready to use reagent cartridges
Sample capacity	1 - 24 samples
Assay time	Assay dependent
Parameters	Assay depending antigen coated strips & ready to use reagent cartridges
Report	Standardized   PDF   Print out in full & single reports
Connectivity	CSV for LIMS

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	2042	SELco® TRAb human 1 step	16
	1450	SELco® TSH rapid	16
<b>T</b>	85048 / 85096	Triple IFA	18

# GA Generic Assays GmbH

## Certificate



### Certificate

#### Quality Management System EN ISO 13485:2016

Registration No.: SX 1799112-1

Organization: GA Generic Assays GmbH  
Ludwig-Erhard-Ring 3  
15827 Blankenfelde-Mahlow  
Germany

Scope: Design and development, manufacturing and sales of in vitro diagnostic devices with immunological reaction systems consisting of reagents, kits and analyzers with integrated software for the detection and evaluation of infection and autoimmune diseases, inflammatory parameters and endocrine disorders

The Certification Body of TÜV Rheinland LGA Products GmbH certifies that the organization has established and applies a quality management system for medical devices.  
Proof has been furnished that the requirements specified in the abovementioned standard are fulfilled. The quality management system is subject to yearly surveillance.

Report No.: 3345323-90  
Effective date: 2021-04-26  
Expiry date: 2024-04-16  
Issue date: 2021-04-16

A handwritten signature in blue ink that reads "Anja Fechner".



Dipl.-Ing. A. Fechner  
TÜV Rheinland LGA Products GmbH  
Tillystraße 2 · 90431 Nürnberg · Germany



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# GA Generic Assays GmbH

## Certificate



### Certificate

#### Quality Management System EN ISO 13485:2016

Registration No.: SX 1799112-1

Organization: GA Generic Assays GmbH  
Ludwig-Erhard-Ring 3  
15827 Blankenfelde-Mahlow  
Germany

The scope of certification also covers the following:

No.	Facility	Scope
/01	c/o GA Generic Assays GmbH Ludwig-Erhard-Ring 3 15827 Blankenfelde-Mahlow Germany	Design and development, manufacturing and sales of in vitro diagnostic devices with immunological reaction systems consisting of reagents, kits and analyzers with integrated software for the detection and evaluation of infection and autoimmune diseases, inflammatory parameters and endocrine disorders
/02	c/o GA Generic Assays GmbH Innovationszentrum Senftenberg Rudolf-Harbig-Str. 12 01968 Senftenberg Germany	Design and development, manufacturing of assay components

Report No.: 3345323-90  
Effective date: 2021-04-26  
Expiry date: 2024-04-16  
Issue date: 2021-04-16



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# Medipan GmbH

## Certificate

### Certificate



#### Quality Management System EN ISO 13485:2016

Registration No.: SX 1158881-1

Organization: MEDIPAN GmbH  
Ludwig-Erhard-Ring 3  
15827 Blankenfelde-Mahlow  
Germany

Scope: Design and development, manufacturing and sales of in vitro diagnostic devices with immunological reaction systems consisting of reagents, kits and analyzers with integrated software for the detection and evaluation of infection and autoimmune diseases, inflammatory parameters and endocrine disorders

The Certification Body of TÜV Rheinland LGA Products GmbH certifies that the organization has established and applies a quality management system for medical devices.  
Proof has been furnished that the requirements specified in the abovementioned standard are fulfilled. The quality management system is subject to yearly surveillance.

Report No.: 3345329-90  
Effective date: 2021-04-23  
Expiry date: 2024-04-16  
Issue date: 2021-04-23

A handwritten signature in blue ink that appears to read "Anna Fahrner".



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1 / 1



Deutsche  
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