

AUTOIMMUNE DISEASES

ENZYME IMMUNOASSAYS (EIA) and LINE/DOT-assays for the diagnosis of autoimmune diseases

IN THE FOCUS: Anti-Gangliosid Dot Analysis

Inflammatory neuropathies of the peripheral nervous system are characterized by numerous clinical symptoms, which can range from mild fatigue and uncharacteristic discomfort to neuromuscular disorders and functional deficiencies, like respiratory failure and cardiac arrest.

Autoantibodies against gangliosides occur in autoimmune diseases of the peripheral nervous system. Gangliosides are acidic glycolipids, comprised of a lipid (ceramide), an oligosaccharide chain and sialic acid.

Gangliosides are components of cell membranes and are particularly found in the central and peripheral nervous system. These antibodies directly cause an inflammation or demyelination of the myelin sheaths, therapy of autoimmune neuropathies is therefore based on immunoregulation.

This means that an accurate diagnosis is crucial for initiation of therapy.

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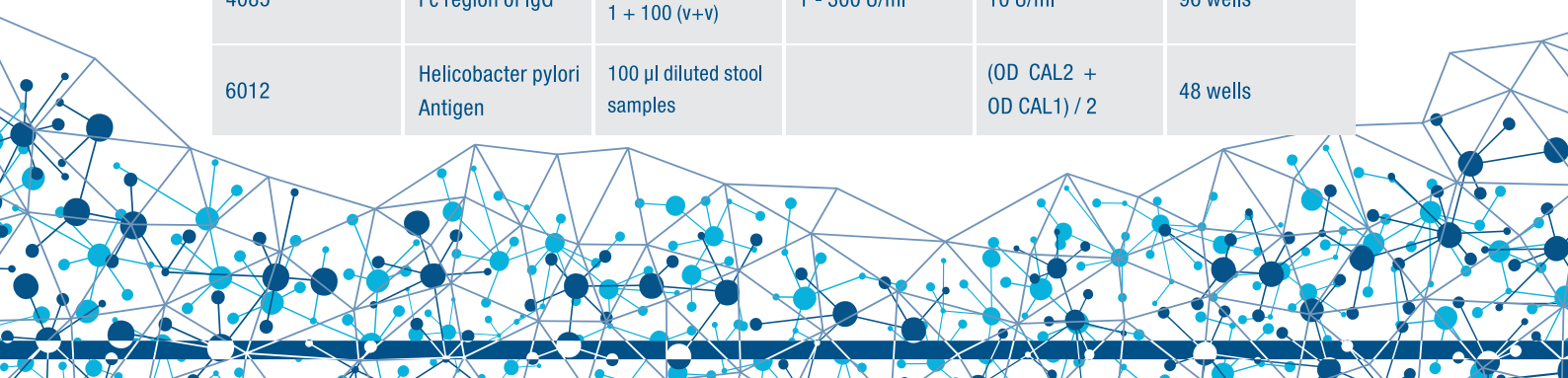
NORTH AMERICA Rocky Mountain Diagnostics Inc.

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| CAT NO. | PARAMETER | SAMPLE SIZE | STANDARDS | SENSIVITY | FORMAT |
|---------|---------------------------------------|--|--------------|---------------------------------|----------------------|
| 3600 | Intrinsic factor | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 3610 | Parietal cells | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 3710 | Deamidated gliadin | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 15 U/ml | 96 wells |
| 3750 | Glycoprotein | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 3810 | Deamidated gliadin | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 15 U/ml | 96 wells |
| 3850 | Glycoprotein 2 | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 15 U/ml | 96 wells |
| 3900 | Asialoglycoprotein receptor | 100 µl diluted serum, 1 + 100 (v+v) | | 1.0 Binding Index | 96 wells |
| 3950 | Glycoprotein 2 | 100 µl diluted serum | 1 - 300 U/ml | 15 U/ml | 96 wells |
| 4006 | Saccharomyces cerevisiae | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 20 U/ml or 1.0 Binding Index | 96 wells |
| 4007 | Saccharomyces cerevisiae | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 20 U/ml or 1.0 Binding Index | 96 wells |
| 4010 | Nuclear and cytoplasmic antigens | 100 µl diluted serum, 1 + 100 (v+v) | | 1.0 Binding Index | 96 wells |
| 4011 | Nuclear and cytoplasmic antigens | 8 x 100 µl diluted serum, 1 + 100 (v+v) | | 1.0 Binding Index | 96 wells (8 x 12) |
| 4012 | Nuclear and cytoplasmic antigens | 8 x 100 µl diluted serum, 1 + 100 (v+v) | | 1.0 Binding Index | 96 wells (8 x 12) |
| 4014 | Cardiolipin | 100 µl diluted serum, 1 + 100 (v+v) | | 1.0 Binding Index | 96 wells |
| 4015 | Double-stranded deoxyribonucleic acid | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 15 U/ml | 96 wells |



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|---------|---------------------------------|--|--------------|-------------------------|----------|
| 4016 | Cardiolipin | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 4027 | Fc region of IgG | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 20 U/ml | 96 wells |
| 4033 | Tissue transglutaminase | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 30 U/ml | 96 wells |
| 4036 | β2 glycoprotein I | 100 µl diluted serum, 1 + 100 (v+v) | | 1.0 Binding Index | 96 wells |
| 4041 | β2 glycoprotein I | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 4044 | Tissue transglutaminase | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 30 U/ml | 96 wells |
| 4046 | Fc region of IgG | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 15 U/ml | 96 wells |
| 4050 | Phospholipids | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 4052 | Mitochondrial antigen M2 | | | | 96 wells |
| 4053 | Cytochrome p450 IID6 | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 15 U/ml | 96 wells |
| 4054 | Liver-Cytosol Type 1 (LC1) | | | | 96 wells |
| 4056 | Phosphatidylserine | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 4059 | Proteinase 3 | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 4062 | Glomerular basal membrane (GBM) | | | | 96 wells |
| 4067 | Complement factor H | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 48 wells |
| 4085 | Fc region of IgG | 100 µl diluted serum, 1 + 100 (v+v) | 1 - 300 U/ml | 10 U/ml | 96 wells |
| 6012 | Helicobacter pylori Antigen | 100 µl diluted stool samples | | (OD CAL2 + OD CAL1) / 2 | 48 wells |



| CAT NO. | PARAMETER | SAMPLE SIZE | STANDARDS | SENSIVITY | FORMAT |
|---------|--|------------------------------|-----------|-------------------------|---------------|
| 6013 | Helicobacter pylori Antigen | 100 µl diluted stool samples | | (OD CAL2 + OD CAL1) / 2 | 96 wells |
| 4028 | MPO, PR3 and GBM | 10 µl neat serum | | | 24 x 3 wells |
| 4029 | M2, LKM1, LC1 and SLA | 10 µl neat serum | | | 24 x 4 wells |
| 4030 | M2, LKM1, LC1, SLA and F-actin | 10 µl neat serum | | | 24 x 5 wells |
| 4049 | Nuclear and cytoplasmic antigens | 10 µl neat serum | | | 24 x 8 wells |
| 4074 | Nuclear and cytoplasmic antigens | 10 µl neat serum | | | 24 x 10 wells |
| 4077 | Nuclear and cytoplasmic antigens | 10 µl neat serum | | | 24 x 6 wells |
| 4202 | Deamidated gliadin and tissue transgluaminase | 10 µl neat serum | | | 20 x 2 wells |
| 4208 | Deamidated gliadin and tissue transgluaminase | 10 µl neat serum | | | 20 x 2 wells |
| 4220 | Intrinsic factor and parietal cell antigen | 20 µl neat serum | | | 20 x 2 wells |
| 4289 | Nuclear and cytoplasmic antigens | 20 µl neat serum | | | 20 x 12 wells |
| 4290 | Deamidated gliadin, tissue transglutaminase, intrinsic | 10 µl neat serum | | | 20 x 5 wells |
| 5003 | Gangliosides | 10 µl neat serum | | | 20 x 12 wells |
| 5006 | Phospholipids and β2- glycoprotein I | 30 µl neat serum | | | 20 x 4 wells |
| 5012 | Phospholipids and serum proteins | 30 µl neat serum | | | 20 x 10 wells |

