



Amrita Institute of Medical Sciences and Research Centre

Department of Neurology

**NEUROIMMUNOLOGY LABORATORY CENTRE OF EXCELLENCE
TEST REQUEST FORM**

Phone: 0484-2856318/0484-668 6318, AIMS exchange Extension- 6304, 6318, Mobile no 09400998656

Email id: neuroimmunology@aims.amrita.edu

PATIENT DETAILS:

* MANDATORY FIELDS IN CAPITAL LETTERS

*FULL NAME:		*AGE:	*GENDER:
HOSPITAL ID	*CONTACT NO		*MAIL ID

SAMPLE DETAILS:

* SPECIMEN TYPE(PLEASE TICK)			*SAMPLE COLLECTION :	NUMBER OF SAMPLES
CSF	Serum	Others	DATE	
			TIME	

REFERRING CONSULTANT:

*FULL NAME:	*EMAIL ID :	*CONTACT NO:
*HOSPITAL NAME AND ADDRESS:		

***CLINICAL DETAILS OF PATIENT / PATIENT HISTORY /PROVISIONAL DIAGNOSIS:**

Signature of Doctor/Patient/Patient Relative:

PTO

SELECT TEST PANEL & SAMPLE (PLEASE TICK)

	PANEL	SAMPLE TYPE	
1.	Autoimmune Atypical Parkinsonism antibody Panel- ANNA-1 ANNA-2, ANNA-3,AGNA-1, PCA-2, PCA-Tr, Amphiphysin, CRMP5, Ma2/Ta, IgLON5, LGI-1, CASPR-2, Unclassified Neuronal antibody	C ☐	S ☐
2.	Autoimmune Dementia Evaluation Optimised (Panel):CSF and Serum Paired ANNA-1(S), ANNA-2(S), ANNA-3(S), AGNA-1(S), PCA-2(S), PCA-Tr(S), Amphiphysin(S), CRMP5(S), Ma2/Ta(S), GABA A(S), GFAP(CSF), DPPX-6(S), Glycine R(S), IgLON5(S), LGI-1(S), CASPR-2(S), NMDA R(NR1)(CSF), AMPA1(CSF), AMPA2(CSF), GABA B(CSF), Zic 4(S),VGCC(S), Unclassified Neuronal antibody(S)	C ☐	S ☐
3.	Autoimmune Dementia Evaluation Panel –ANNA-1, ANNA-2, ANNA-3, AGNA-1, PCA-2, PCA-Tr, Amphiphysin, CRMP5, Ma2/Ta, GABA A, GFAP, DPPX- 6, Glycine R, IgLON5, LGI-1, CASPR-2, NMDA R(NR1), AMPA1, AMPA2, GABA B, Zic 4, VGCC Ab (Serum only), Unclassified Neuronal antibody	C ☐	S ☐
4.	Autoimmune Encephalitis Panel of Antibodies -GABA B, NMDAR –(NR-1) LGI1, CASPR2, AMPA1, AMPA 2.	C ☐	S ☐
5.	Autoimmune Epilepsy profile -ANNA-1, ANNA-2, ANNA-3, AGNA-1, PCA-2, PCA-Tr, Amphiphysin,CRMP5, Ma2/Ta, LGI-1, CASPR-2, NMDAR(NR1), AMPA 1, AMPA2, GABA B, GABA A, GFAP, DPPX-6, Glycine R, Unclassified Neuronal antibody.	C ☐	S ☐
6.	Autoimmune Movement Disorder Evaluation panel- Adaptor protein -3B2 antibody,GFAP,Homer-3, IgLON 5, Inositol 1,4,5-trisphosphate receptor type 1, Kelch –like protein 11, mGluR 2, mGluR 1, NIF, Neurochondrin, Septin 5, Sez6L2(Seizure related 6 homologs like 2), TRIM(tripartite motif containing) 9 and 67 antibody, CASPR 2, LGI 1	C ☐	S ☐
7.	Autoimmune Myelopathy Evaluation Panel in CSF with 18 subtitles – NMOSD, DPPX, mGlu R1, ANNA-1(anti-Hu), ANNA-2(anti-Ri), ANNA-3, PCA-1 (anti Yo), PCA-2, PCA-Tr, AGNA-1, Amphiphysin, CRMP-5 (Anti CV-2), GFAP, NIF, GAD 65, Glycine Receptor alpha 1, Adaptor protein-3B2, Kelch 11.	C ☐	
8.	Autoimmune Myelopathy Evaluation Panel in Serum with 19 subtitles –NMOSD, DPPX, mGlu R1, ANNA-1 (anti-Hu), ANNA-2(anti-Ri), ANNA-3, PCA-1 (anti Yo), PCA-2, PCA-Tr, AGNA-1, Amphiphysin, CRMP-5 (Anti CV-2), GFAP, NIF, GAD 65, VGCC, Glycine Receptor alpha 1, Adaptor protein-3B2, Kelch 11.		S ☐
9.	Autoimmune Neuropathy Evaluation Panel in Serum with 8 Biomarkers- NF 140, NF 155, NF 186, MAG, Sulfatide(IgM), LGI1, CASPR 2, GAD 65, Neuronal Antibodies		S ☐
10.	Chronic Inflammatory Demyelinating Polyradiculoneuropathy (CIDP) Evaluation panel -CASPR1, Contactin 1, MAG, NF 140, NF 155, NF 186, Sulfatide(IgM)		S ☐
11.	CNS Inflammation Evaluation Panel-CSF and Serum Paired -S.Alb, S. IgG, CSF Alb,CSF IgG, CSF IgG index, CSF IgG synthesis rate, CSF IgG Intrathecal synthesis rate, Albumin index, S OCB, CSF OCB	C ☐	S ☐
12.	CNS Inflammation Panel - Extended-CSF & Serum Paired -S.Alb,S. IgG, CSF Alb,CSF IgG, CSF IgG index, CSF IgG synthesis rate, CSF IgG Intrathecal synthesis rate, Albumin index, CSF IgG / CSF Alb ratio,S OCB, CSF OCB, S.Neuronal Antibody, CSF Neuronal Antibody.	C ☐	S ☐
13.	CSF biomarkers of Alzheimers disease panel- Phospho-Tau _(181P) ,hTau protein, βamyloid ₍₁₋₄₂₎ , . βamyloid ₍₁₋₄₀₎ , pTau/Aβ42 ratio, h tau/Aβ42, Aβ42/ Aβ40, ptau /h tau ratio	C ☐	
14.	Ganglioside Antibody Evaluation Panel in Serum by Indirect ELISA - GD1b-IgG,GQ1b-IgG,GM1-IgG, GD1b-IgM,GQ1b-IgM, GM1-IgM.		S ☐
15.	Ganglioside Antibody Evaluation Panel in Serum -IgG and IgM mix (GanglioCombi) to GM1 GD1b and GQ1b - GD1b-IgG & IgM,GQ1b-IgG & IgM,GM1-IgG & IgM		S ☐
16.	Multiple Sclerosis EvaluationPanel- CSF &Serum Paired -S.Alb,S. IgG, CSF Alb,CSF IgG, CSF IgG index, CSF IgG synthesis rate, CSF IgG Intrathecal synthesis rate, Albumin index, S.OCB, CSF OCB.	C ☐	S ☐

17.	Myasthenia Gravis Antibody Evaluation Panel -AchR, Agrin, LRP4, MUSK, Ryanodine Receptor, Striatal Muscle, Titin (Quantitation)		S ☐
18.	NMOSD (NeuromyelitisOptica Spectrum Disorders) Detection Panel - MOG and NMO IgG (AQP4)	C ☐	S ☐
19.	Oligoclonal Band in CSF Profile – CSF Alb, CSF IgG, CSFIgG/CSF Alb Ratio, CSF OCB	C ☐	
20.	Paraneoplastic Panel of Neuronal Antibodies detection -ANNA-1, ANNA-2, ANNA-3, AGNA-1, PCA-1, PCA-2, PCA-Tr, Amphiphysin , CRMP-5, Ma2/Ta	C ☐	S ☐
21.	Reflex to titer assay for NMOSD (Neuromyelitis Optica Spectrum Disorders) antibody detection -MOG and NMO IgG (AQP4)	C ☐	S ☐
22.	Reflex to titer assay for VGKC (Voltage-gated Potassium Channel) antibody detection - LGI-1 and CASPR-2	C ☐	S ☐
23.	Stiff-Person Spectrum Disorders Antibody Evaluation Panel - Amphiphysin, GAD 65 , Glycine Receptor antibody, Gephyrin, GABA A, DPPX, IgLON5	C ☐	S ☐
24.	VGKC(Voltage gated potassium channel) antibody detection - LGI-1 and CASPR-2	C ☐	S ☐

	SELECT INDIVIDUAL TEST & SAMPLE (PLEASE TICK)	SAMPLE TYPE
1	Acetylcholine Receptor Auto antibody quantitation	S ☐
2	Adenylate Kinase 5 antibody detection	C ☐ S ☐
3	Agrin antibody quantitation	S ☐
4	Alpha Synuclein quantitation	C ☐ S ☐
5	CARP VIII (Carbonic Anhydrase - Related Protein VIII) antibody detection	C ☐ S ☐
6	CASPR 1 antibody quantitation	S ☐
7	Contactin 1 antibody quantitation	S ☐
8	DPPX -6(Dipeptidyl Aminopeptidase like Protein 6) antibody detection	C ☐ S ☐
9	GABA A receptor antibody detection	C ☐ S ☐
10	GABA B receptor antibody detection	C ☐ S ☐
11	GFAP (Glial Fibrillary Acidic Protein) antibody detection	C ☐ S ☐
12	GAD 65 antibody quantitation	S ☐
13	GAD-65 (Glutamic acid decarboxylase -65) antibody detection	C ☐
14	Glycine receptor antibody detection	C ☐ S ☐
15	HMG CoA Reductase antibody quantitation	S ☐
16	HOMER 3(Homer protein homolog 3) antibody detection	C ☐ S ☐
17	IgLON5 antibody detection	C ☐ S ☐
18	ITPR1 (Inositol 1 4 5-trisphosphate receptor type 1) antibody detection	C ☐ S ☐
19	KLHL11 (Kelch - like protein11) antibody detection	C ☐ S ☐
20	LRP4(Low density Lipoprotein Receptor related Protein4)antibody quantitation	S ☐

21	mGluR 1 (metabotropic glutamate receptor 1) antibody detection	C ☐	S ☐
22	mGluR 3 (metabotropic glutamate receptor 3) antibody detection	C ☐	S ☐
23	mGluR 5 (metabotropic glutamate receptor 5) antibody detection	C ☐	S ☐
24	MUSK antibody quantitation		S ☐
25	MAG (Myelin Associated Glycoprotein) Antibody quantitation		S ☐
26	MOG (Myelin Oligodendrocyte Glycoprotein) antibody detection	C ☐	S ☐
27	Neurexin - 3 alpha antibody detection	C ☐	S ☐
28	Neurochondrin antibody detection	C ☐	S ☐
29	Neurofascin 140 antibody quantitation	C ☐	S ☐
30	Neurofascin 155 antibody quantitation	C ☐	S ☐
31	Neurofascin 186 antibody quantitation	C ☐	S ☐
32	Neurofilament Light Polypeptide quantitation	C ☐	S ☐
33	Neuron Specific Enolase quantitation	C ☐	S ☐
34	Neuronal antibody detection	C ☐	S ☐
35	NIF (Neuronal Intermediate filament) antibody detection	C ☐	S ☐
36	NMDA receptor (NR1) antibody detection	C ☐	S ☐
37	NMO antibody (Aquaporin-4) detection	C ☐	S ☐
38	Orexin- A quantitation	C ☐	
39	14-3-3 Protein Gamma quantitation	C ☐	
40	Recoverin antibody detection	C ☐	S ☐
41	Reflex to titer assay for MOG(Myelin Oligodendrocyte Glycoprotein) antibody detection	C ☐	S ☐
42	Reflex to titer assay for NMDA Receptor (NR1) antibody detection	C ☐	S ☐
43	Ryanodine receptor antibody quantitation		S ☐
44	Septin 5 antibody detection	C ☐	S ☐
45	SEZ6L2 (Seizure related 6 homologs like 2) antibody detection	C ☐	S ☐
46	Striated Muscle Antibody detection		S ☐
47	Sulfatide antibody(IgM) quantitation		S ☐
48	Titin antibody detection (Qualitative)		S ☐
49	Titin antibody quantitation		S ☐
50	VGCC IgG (Voltage gated Calcium Channel) antibody quantitation		S ☐
51	Zic 4 antibody detection	C ☐	S ☐
TRF updated 01.08.2025 with 24 panels and 51 individual tests			

***Reflex to titer assay**

End point titer will be performed at an additional charge upon request from your treating consultant.

Purpose of recommendation for Reflex to titer assay in antibody-positive cases.

1. Reflex to titer is a measure of the amount of antibody in serum and CSF; the higher the titer, the higher the autoantibodies present in the samples.
 2. Reflex-to-titer assay is used in monitoring treatment response in autoantibody-positive patients. Decreasing antibody titer may be associated with good therapeutic response, so clinical correlation must be strongly considered.
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*** Laboratory working time 9.00 am to 6.00 pm. (Except Sundays and Institute Holidays)**

For enquiries please call 9400998656 between 9.00am to 6.00pm (Except Sundays and Institute Holidays).

Specimen: CSF C (Two ml) ☐ Serum S (Two ml) ☐

CSF collection in sterile leak proof, polypropylene/ plastic tube

Serum Collection: 5 ml blood in Red cap vacutainer (Clotted blood) or yellow cap(Gel)



POLYPROPYLENE TUBE

Sample Retention Policy:

CSF and Serum samples retained for 30 days only.

Method of sample transportation

1. Use a screw top, leak proof polypropylene/ plastic tube for CSF(2-3ml). Blood (5ml) to be collected in Red cap vacutainer (Clotted blood) or yellow cap(Gel) tube.
2. Sample is stable at ambient temperature for 72 hours.
3. Samples sent by courier, should reach the lab within 72 hours.
4. Avoid sending the sample at weekends to reduce the transport time to less than 72 hours.
5. Store sample in a refrigerator until sending
6. If any delay is expected, ensure cold chain is maintained. To ensure the integrity of serum and cerebrospinal fluid (CSF) samples during transport, use leak-proof, sterile, and clearly labelled primary containers (such as blood tubes for serum and sterile screw-cap, leak proof polypropylene/ plastic tube tubes for CSF), placed inside a sealed secondary container with

absorbent material, and then within an insulated tertiary container (cold box) with ice or gel packs to maintain a temperature of 2–8°C, avoiding direct contact between the sample and cooling elements.

7. In case of small sample volume or any other problem, contact lab before sending.

Please ensure samples are accompanied by completely filled Test Request Form (TRF) along with payment details. Avoid sending samples of different patients together. Separate them by using different Zip lock pouches.

Payment options

1.Cash payment at the Billing Counter at Amrita Institute of Medical Sciences directly

2.*Demand Draft in favor of Amrita Institute of Medical Sciences payable at Kochi/ Ernakulam

3.*Online / Internet Fund TransferNational Electronic Fund Transfer (NEFT)

Account Name: Amrita Institute of Medical Sciences and Research Centre

Account No: 015500100001304

Address:Amrita Lane, AIMS Ponekkara.P.O., Ernakulam, Kerala State, India. Pin Code: 682041

Bank Name: The Dhanalakshmi Bank Limited, AIMS Campus, Amrita Lane, AIMS Ponekkara.P.O, Ernakulam, Kerala State, India. Pin Code 682041.

Bank SWIFT Code:DLXBINBB

Bank RTGS/IFSC Code:DLXB0000155

*Please provide DD details/Bank transaction ID details with test request form.

Address for communication

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<https://amritahospitals.org/centres-of-excellences/neurology/neuroimmunology-laboratory/>

TO BE FILLED BY NEUROIMMUNOLOGY LAB	
RECEIVING DATE :	TIME:
AMRITA MRD:	LAB ID:
RECEIVED BY NAME:	SIGNATURE: