## Lab Dept: Other Fluids

## Test Name: PEDIATRIC AUTOIMMUNE CNS DISORDERS EVALUATION, CSF (< 18 y.o.)

## **General Information**

Lab Order Codes:	PCDEC
Synonyms:	Peds Autoimmune Central Nervous System Eval, Spinal Fluid
CPT Codes:	86255 x10 – Fluorescent noninfectious agent, antibody screen, each antibody 86341 – Islet cell antibody
	Possible reflex testing (at an additional charge):
	84182 x6 – Western blot, with interpretation and report, each 86255 x10 – Fluorescent noninfectious agent, antibody screen, each antibody
	86256 x 7 – Fluorescent noninfectious agent, titer, each antibody
Test Includes:	If the indirect immunofluorescence assay (IFA) pattern suggests antineuronal nuclear antibodies (ANNA)-1, then ANNA-1 immunoblot, ANNA-1 IFA titer and ANNA-2 immunoblot will be performed at an additional charge.
	If the IFA pattern suggests Purkinje cell cytoplasmic antibody (PCA)-Tr, then PCA-Tr immunoblot and PCA-Tr IFA titer will be performed at an additional charge.
	If N-methyl-D-aspartate receptor (NMDA-R) antibody CBA is positive, then NMDA-R IFA titer will be performed at an additional charge.
	If gamma-aminobutyric acid B receptor (GABA-B-R) antibody CBA is positive, then GABA-B-R IFA titer will be performed at an additional charge.
	If the IFA pattern suggests dipeptidyl-peptidase-like protein-6 (DPPX) antibody, then DPPX antibody CBA and DPPX IFA titer will be performed at an additional charge.
	If the IFA pattern suggests metabotropic glutamate receptor 1 (mGluR1) antibody, then mGluR1 antibody CBA and mGluR1 IFA titer will be performed at an additional charge.
	If the IFA pattern suggests glial fibrillary acidic protein (GFAP) antibody, then GFAP antibody CBA and GFAP IFA titer will be performed at an additional charge.
	If the neuromyelitis optica/aquaporin-4-IgG (NMO/AQP4-IgG) fluorescence- activated cell sorting (FACS) screen assay requires further investigation,

	then NMO/AQP4-IgG FACS titration assay will be performed at an additional charge.	
	If the IFA pattern suggests neurochondrin antibody, then neurochondrin antibody CBA and neurochondrin IFA titer will be performed at an additiona charge.	
Logistics		
Test indications:	This test is for patients less than 18 years of age. For patients 18 years of age or older, order Encephalopathy Autoimmune CNS Disorders Eval, CSF (ENC2).	
	Evaluating children with autoimmune central nervous system disorders using spinal fluid specimens.	
Lab Testing Sections:	Other Fluids - Sendouts	
Referred to:	Mayo Clinic Laboratories – (Mayo test: PCDEC)	
Phone Numbers:	MIN Lab: 612-813-6280	
	STP Lab: 651-220-6550	
Test Availability:	Daily, 24 hours	
Turnaround Time:	8 – 12 days	
Special Instructions:	N/A	
Specimen		
Specimen Type:	CSF	
Container:	Screw-capped, sterile, plastic vial	
Draw Volume:	4.0 mL (Minimum: 2.0 mL) CSF	
Processed Volume:	Same as Draw Volume	
Collection:	Routine CSF collection, collection vial #1 preferred (any vial accepted)	
Special Processing:	Lab Staff: Use sterile technique to aliquot 4.0 (min: 2.0) mL CSF. Store an ship refrigerated in plastic vial.	
	Specimen stable refrigerated (preferred) or frozen for 28 days, ambient for 72 hours	
Patient Preparation:	None	

Sample Rejection:

## Interpretive

Reference Range:	Antibody:	Reference Range:
	Anti-Neuronal Nuclear Ab Type 1	Negative
	CASPR-2 IgG CBA	Negative
	DPPX Ab IFA	Negative
	GABA-B-R Ab CBA	Negative
	GAD65 Ab Assay	< or = 0.02 nmol/L
	GFAP IFA	Negative
	mGluR1 Ab IFA	Negative
	LGI1-IgG CGA	Negative
	Neurochondrin IFA, CSF	Negative
	NMDA-R Ab CBA	Negative
	NMO/AQP4 FACS	Negative
	Peds Autoimmune CNS Interp, CSF	N/A
	Purkinje Cell Cytoplasm Ab Type Tr	Negative
Reflex Reference	ANNA-1 Immunoblot	Negative
Ranges:	ANNA-1 Titer	<1:2
	ANNA-2 Immunoblot	Negative
	DPPX Ab CBA	Negative
	DPPX Ab IFA Titer	<1:2
	GABA-B-R Ab IF Titer Assay	<1:2
	GFAP CBA	Negative

	GFAP IFA Titer	<1:2	
	mGluR1 Ab CBA	Negative	
	mGluR1 Ab IFA Titer	<1:2	
	Neurochondrin CBA	Negative	
	Neurochondrin IFA Titer	<1:2	
	NMDA-R Ab IF Titer Assay	<1:2	
	NMO/AQP4 FACS Titer	<1:2	
	PCA-Tr Titer	<1:2	
	PCA-Tr Immunoblot	Negative	
Limitations:	Negative results do not exclude a diagnosis of an autoimmune central nervous system disorder.		
Methodology:	Immunofluorescence assay (IFA) Cell-binding assay (CBA) Fluorescence activated cell sorting assay (FACS) Radioimmunoassay (RIA) Immunoblot (IB)		
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References:Mayo Clinic Laboratories(February 2023)

Updates:2/17/2023: Updated age limits in Test Indications, specimen stability added<br/>4/17/2023: Reference ranges and reflex testing updated