

Client: Example Client ABC123 123 Test Drive Salt Lake City, UT 84108 UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

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01234567890ABCD, 012345
01234567890ABCD
01/01/2017 12:34

Autoimmune Neurologic Disease Panel With Reflex, Serum

ARUP test code 3018965

Neuronal Antibody (Amphiphysin)	Negative INTERPRETIVE INFORMATI	(Ref Interval: Negative) ON: Amphiphysin Antibody, IgG
	with stiff-person synd of paraneoplastic neur	s present in about 5 percent of patients rome and is found variably in other causes ological syndrome (PNS). Amphiphysin ociated with small-cell lung cancer and
	determined by ARUP Lab approved by the US Foo	d and its performance characteristics oratories. It has not been cleared or d and Drug Administration. This test was rtified laboratory and is intended for
Purkinje Cell/Neuronal Nuclear IgG Scrn	None Detected	(Ref Interval: None Detected)
	PCCA Antibodies not de will not be performed.	tected, ITPR1 Antibody, IgG by CBA-IFA
	ANNA-1, ANNA-2, PCCA-1 No further testing wil	or PCCA-Tr(DNER) antibodies not detected. 1 be performed.
	INTERPRETIVE INFORMATI	ON: Purkinje Cell/Neuronal Nuclear IgG Scrn
	determined by ARUP Lab approved by the US Foo	d and its performance characteristics oratories. It has not been cleared or d and Drug Administration. This test was rtified laboratory and is intended for
NMDA Receptor Ab IgG CBA-IFA, Serum	<1:10	(Ref Interval: <1:10)
	Antibodies to NMDA wer follow.	e not detected, no additional testing to
	INTERPRETIVE INFORMATI	ON: NMDA Receptor Ab IgG CBA-IFA, Serum
	autoimmune limbic ence associated tumor. Decr with therapeutic respo	is found in a subset of patients with phalitis and may occur with or without easing antibody levels may be associated nse. In addition, positive results have nts with non-autoimmune phenotypes. A
н_н_	h. I=Iow. *=Abnormal. C=Cri	itical

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com 500 Chipeta Way, Salt Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director Patient: Patient, Example ARUP Accession: 25-106-161179 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 1 of 9 | Printed: 5/5/2025 11:26:15 AM

	negative test result does not rule out a diagnosis of autoimmune limbic encephalitis. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings. Serum testing should be paired with CSF testing for improved diagnostic sensitivity.
	This indirect fluorescent antibody assay utilizes full-length GluN1 transfected cell lines for the detection and semiquantification of NMDA receptor IgG antibody.
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.
CASPR2 Ab IgG CBA-IFA Screen, Serum	<1:10 (Ref Interval: <1:10)
	CASPR2 Antibody, IgG is not detected. No further testing will be performed.
	INTERPRETIVE INFORMATION: CASPR2 Ab IgG CBA-IFA Screen,
	Serum Contactin-associated protein-2 (CASPR2) IgG antibody may occur as part of the voltage-gated potassium channel (VGKC) complex antibodies.
	The presence of CASPR2 IgG antibody is associated with a wide spectrum of clinical manifestations, including acquired neuromyotonia, limbic encephalitis, painful neuropathy, and Morvan syndrome. Tumors such as thymoma, small cell lung cancer, and other rarer tumors may occur. The full-spectrum of clinical disorders and tumors associated with the CASPR2 IgG antibody continues to be defined. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.
	This indirect fluorescent antibody assay utilizes CASPR2 transfected cell lines for the detection and semiquantification of the CASPR2 IgG antibody.
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.
LGI1 Ab IgG CBA-IFA Screen, Serum	<1:10 (Ref Interval: <1:10)
	LGI1 Antibody, IgG is not detected. No further testing will be performed.
	INTERPRETIVE INFORMATION: LGI1 Ab IgG CBA-IFA Screen, Serum
	Leucine-rich, glioma-inactivated 1 protein (LGI1) IgG antibody may occur as part of the voltage-gated potassium channel (VGKC) complex antibodies.
	The presence of LGI1 IgG antibody is mainly associated with limbic encephalitis, hyponatremia, and myoclonic movements. LGI1 IgG antibody is rarely associated with tumors but may occur infrequently in Morvan syndrome, neuromyotonia, and idiopathic epilepsy. The full-spectrum of clinical disorders associated with the LGI1 IgG antibody continues to be defined. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.

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Jonathan R. Genzen, MD, PhD, Laboratory Director

This indirect fluorescent antibody assay utilizes LGI1 transfected cell lines for the detection and semiquantification of the LGI1 IgG antibody.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

	Aquaporin-4 Receptor Antibody, IgG is not detected. No further testing will be performed. INTERPRETIVE INFORMATION: NMO/AQP4 Ab IgG CBA-IFA Screen, Serum Neuromyelitis optic (NMO) commonly presents with optic neuritis or longitudinally extensive transverse myelitis. Approximately 75 percent of patients with NMO have antibodies to the aquaporin-4 (AQP4) receptor. While the absence of AQP4 receptor antibodies does not rule out a diagnosis of NMO, presence of this antibody is diagnostic for NMO. This indirect fluorescent antibody assay utilizes AQP4 receptor transfected cell lines for the detection and semiguantification
	Serum Neuromyelitis optic (NMO) commonly presents with optic neuritis or longitudinally extensive transverse myelitis. Approximately 75 percent of patients with NMO have antibodies to the aquaporin-4 (AQP4) receptor. While the absence of AQP4 receptor antibodies does not rule out a diagnosis of NMO, presence of this antibody is diagnostic for NMO. This indirect fluorescent antibody assay utilizes AQP4 receptor
	Neuromyelitis optic (NMO) commonly presents with optic neuritis or longitudinally extensive transverse myelitis. Approximately 75 percent of patients with NMO have antibodies to the aquaporin-4 (AQP4) receptor. While the absence of AQP4 receptor antibodies does not rule out a diagnosis of NMO, presence of this antibody is diagnostic for NMO. This indirect fluorescent antibody assay utilizes AQP4 receptor
	of AQP4 IgG antibody.
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.
CV2 Ab IgG CBA-IFA Screen, Serum	<1:100 (Ref Interval: <1:100)
	CV2 Antibody, IgG is not detected. No further testing will be performed.
	INTERPRETIVE INFORMATION: CV2 Ab IgG CBA-IFA Screen, Serum
	CV2 antibodies aid in discriminating between chronic paraneoplastic neurological disorder (PND) and other inflammatory disorders of the nervous system. Anti-CV2 is associated with small-cell lung cancer and thymoma. A negative test result does not rule out a diagnosis of autoimmune neurologic disease. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.
	This indirect fluorescent antibody assay utilizes CV2 transfected cell lines for the detection and semiquantification of the CV2 IgG antibody.
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.
AMPA Receptor Ab IgG CBA-IFA Scrn, Serum	<1:10 (Ref Interval: <1:10)
	AMPAR Antibody, IgG is not detected. No further testing will be performed.
	INTERPRETIVE INFORMATION: AMPA Receptor Ab IgG CBA-IFA Scrn,
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	Alpha-amino-3-hydroxy-5-methy receptor (AMPAR) antibody is autoimmune limbic encephalit associated tumor. Decreasing with therapeutic response. A out a diagnosis of autoimmune interpreted in correlation w and other laboratory findings This indirect fluorescent and transfected cell lines for th of AMPAR IgG antibody.	
	determined by ARUP Laborator approved by the US Food and I	ies. It has not been cleared or Drug Administration. This test was d laboratory and is intended for
GABA-BR Ab IgG CBA-IFA Scrn, Ser	<1:10	(Ref Interval: <1:10)
	GABA-BR Antibody, IgG is not be performed.	detected. No further testing will
	INTERPRETIVE INFORMATION: GAR	3A-BR Ab IgG CBA-IFA Scrn, Ser
	found in a subset of patients autoimmune neurologic phenoty associated tumor. Decreasing with therapeutic response. A out a diagnosis of autoimmune	eptor, type B (GABA-BR) antibody is s with autoimmune epilepsy and other ypes; it may occur with or without antibody levels may be associated negative test result does not rule e neurologic disease. Results relation with the patient's clinical findings.
		tibody assay utilizes GABA-BR ne detection and semiquantification
	determined by ARUP Laborator approved by the US Food and I	its performance characteristics ies. It has not been cleared or Drug Administration. This test was d laboratory and is intended for
MOG Ab IgG CBA-IFA Screen, Serum	<1:10	(Ref Interval: <1:10)
	MOG Antibody, IgG is not dete performed.	ected. No further testing will be
	INTERPRETIVE INFORMATION: MOD	G Ab IgG CBA-IFA Screen, Serum
	subset of patients with neuro including optic neuritis and encephalitis, and acute disso Persistence of antibody posit relapsing course. A negative diagnosis of CNS demyelination interpreted in correlation we and other laboratory findings	tivity may be associated with a test result does not rule out a ng disease. Results should be ith the patient's clinical history 5.
	This indirect fluorescent and MOG transfected cell lines for semiquantification of MOG Igo	tibody assay utilizes full-length or the detection and G antibody

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SOX1 Antibody, IgG by Immunoblot, Serum	Ser SOX1 antibody is detected in myasthenic syndrome (LEMS) ar cerebellar degeneration (PCD) nonparaneoplastic neuropathy small cell lung cancer. A neg a diagnosis of LEMS or other neurological syndrome. This test was developed and determined by ARUP Laborator approved by the U.S. Food and	patients with Lambert-Eaton nd in patients with paraneoplastic), paraneoplastic and . SOX1 antibody is associated with gative test result does not rule out
DPPX Ab IgG CBA-IFA Screen, Serum	<1:10 DPPX Antibody, IgG is not det performed.	(Ref Interval: <1:10) cected. No further testing will be
	INTERPRETIVE INFORMATION: DPF	PX Ab IgG CBA-IFA Screen, Serum
	encephalitis, and is often as gastrointestinal symptoms and occur with or without associa levels may be associated with test result does not rule out	d unintentional weight loss. It may ated tumor. Decreasing antibody a therapeutic response. A negative a diagnosis of autoimmune should be interpreted in correlation
	This indirect fluorescent and transfected cells for the det the DPPX IgG antibody.	tibody assay utilizes DPPX fection and semiquantification of
	approved by the U.S. Food and	its performance characteristics ies. It has not been cleared or d Drug Administration. This test was d laboratory and is intended for
GABA-AR Ab IgG CBA-IFA Screen, Serum	<1:10	(Ref Interval: <1:10)
	GABA-AR Antibody, IgG is not be performed.	detected. No further testing will
	found in a subset of patients autoimmune epilepsy and may o tumor. A negative test result autoimmune limbic encephaliti	rum otor, type A (GABA-AR) antibody is s with autoimmune encephalitis or occur with or without associated t does not rule out a diagnosis of

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	This indirect fluorescent antibody assay utilizes GABA-AR transfected cell lines for detection and semi-quantification of GABA-AR IgG antibody.			
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.			
IgLON5 Ab IgG CBA-IFA Screen, Serum	<1:10 (Ref Interval: <1:10)			
	IgLON5 Antibody, IgG is not detected. No further testing will be performed.			
	INTERPRETIVE INFORMATION: IgLON5 Ab IgG CBA-IFA Screen,			
	Serum IgLON Family Member 5 (IgLON5) antibody is found in a subset of patients with autoimmune encephalitis or other autoimmune neurologic/neurodegenerative disorders and may occur with or without associated tumor. A negative test result does not rule out a diagnosis of an autoimmune neurologic disorder. Interpretation of any antineural antibody test requires clinical correlation.			
	This indirect fluorescent antibody assay utilizes IgLON5 transfected cell lines for detection and semi-quantification of IgLON5 IgG antibody.			
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.			
mGluR1 Ab IgG CBA-IFA Screen, Serum	<1:10 (Ref Interval: <1:10)			
	mGluR1 Antibody, IgG is not detected. No further testing will be performed.			
	INTERPRETIVE INFORMATION: mGluR1 Ab IgG CBA-IFA Screen, Serum			
	Metabotropic glutamate receptor 1 (mGluR1) antibody is found in a subset of patients with autoimmune cerebellar ataxia or autoimmune encephalitis and may occur with or without associated tumor. A negative test result does not rule out a diagnosis of autoimmune cerebellar ataxia or limbic encephalitis. Interpretation of any antineural antibody test requires clinical correlation.			
	This indirect fluorescent antibody assay utilizes mGluR1 transfected cell lines for detection and semi-quantification of mGluR1 IgG antibody.			
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.			
Ma2/Ta Antibody, IgG by Immunoblot, Ser	Negative (Ref Interval: Negative)			
	INTERPRETIVE INFORMATION: Ma2/Ta Antibody, IgG by Immunoblot, Ser			
	IgG antibodies to Ma2/Ta are associated with paraneoplastic			
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	<pre>neurologic syndromes with phenotypes most often including a combination of limbic encephalitis, diencephalic encephalitis, and brainstem encephalitis. Patients with anti-Ma2/Ta paraneoplastic neurologic syndromes should be thoroughly evaluated for cancer, including testicular cancer and adenocarcinoma, as neurologic symptoms often precede cancer diagnosis. Use of immune checkpoint inhibitors has also been associated with an increased risk of anti-Ma2 paraneoplastic neurologic disease. Consider sending testing in CSF as well as serum to improve diagnostic yield. Results (positive or negative) should be interpreted in the context of the patient's complete clinical picture, as false positives may occur and a negative result does not exclude the diagnosis of paraneoplastic neurologic disease. This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.</pre>
KLHL11 Ab IgG CBA-IFA Screen, Serum	<1:10 (Ref Interval: <1:10) KLHL11 Antibody, IgG is not detected. No further testing will be performed.
	INTERPRETIVE INFORMATION: KLHL11 Antibody, IgG by CBA-IFA,
	Serum
	IgG antibodies to KLHL11 are associated with paraneoplastic neurologic syndromes with phenotypes most often including a combination of brainstem and cerebellar encephalitis as well as sensorineural hearing loss. Patients with anti-KLHL11 syndromes should be thoroughly evaluated for cancer, including testicular cancer, as neurologic symptoms often precede cancer diagnosis. Consider sending testing in CSF as well as serum to improve diagnostic yield. Coexisting and clinically relevant antineural antibodies have been reported; consider ordering a phenotype-specific panel to assess for these. Results (positive or negative) should be interpreted in the context of the patient's complete clinical picture, as false positives may occur, and a negative result does not exclude the diagnosis of immune-mediated neurologic disease.
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.
P/Q-Type Calcium Channel Antibody	0.0 pmol/L (Ref Interval: 0.0-24.5)
	INTERPRETIVE INFORMATION: P/Q-Type Calcium Channel Antibody
	0.0 to 24.5 pmol/L Negative 24.6 to 45.6 pmol/L Indeterminate 45.7 pmol/L or greater Positive
	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.
Voltage-Gated Potassium Channel Ab, Ser	0 pmol/L (Ref Interval: 0-31)
J	INTERPRETIVE INFORMATION: Voltage-Gated Potassium Channel (VGKC) Antibody, Serum
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		Indeterminate	31 pmol/L or less 32 - 87 pmol/L 88 pmol/L or greater	
		with neuromuscular known as Issacs sy are also associate and limbic encephaliti leucine-rich, glio contactin-associat channel antigens. cases are negative all VGKC complex a of this test can o patient's clinical This test was deve determined by ARUP approved by the US	ssium Channel (VGKC) anti weakness as found in neu ndrome) and Morvan syndro d with paraneoplastic neu litis; however, VGKC anti s may be associated with ma-inactivated 1 protein ed protein-2 (CASPR2) ins A substantial number of v for LGI1 and CASPR2 IgG ntigens are known. The cl nly be determined in conj history and related labo loped and its performance Laboratories. It has not Food and Drug Administra A certified laboratory an	promyotonia (also me. VGKC antibodies prological syndromes body-associated antibodies to (LGI1) or tead of potassium (KC-antibody positive autoantibodies, not inical significance unction with the oratory testing. e characteristics been cleared or tion. This test was
R		Negative	(Ref Interval : Ganglionic Acetylcholin 0.0-8.4_pmol/L	
			8.5-11.6 pmol/L 11.7 pmol/L or great	er
		determined by ARUP approved by the US	loped and its performance Laboratories. It has not Food and Drug Administra A certified laboratory an	: been cleared or tion. This test was
Glutamic Acid Decarboxylase A	ntibody	<5.0 IU/mL	(Ref Interval	: 0.0-5.0)
	5	INTERPRETIVE INFORMATION: Glutamic Acid Decarboxylase Antibody		
		Glutamic Acid Deca intended for the s	an 5.0 IU/mL is considere rboxylase Antibody (GAD A emi-quantitative determin sults should be interpret ms.	b). This assay is ation of the GAD Ab
		VERIFIED/REPORTED DATE	S	
Procedure	Accession	Collected	Received	Verified/Reported
Neuronal Antibody (Amphiphysin)	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:31:00 PM
Purkinje Cell/Neuronal Nuclear IgG Scrn	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/22/2025 11:21:00 PM

Neuronal Antibody (Amphiphysin)	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:31:00 PM
Purkinje Cell/Neuronal Nuclear IgG Scrn	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/22/2025 11:21:00 PM
NMDA Receptor Ab IgG CBA-IFA, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:49:00 PM
CASPR2 Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:49:00 PM
LGI1 Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:49:00 PM
NMO/AQP4 Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/22/2025 9:46:00 PM
CV2 Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/22/2025 1:33:00 PM

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Patient Report |FINAL

AMPA Receptor Ab IgG CBA-IFA Scrn, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:49:00 PM
GABA-BR Ab IgG CBA-IFA Scrn, Ser	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:49:00 PM
MOG Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/22/2025 12:34:00 PM
SOX1 Antibody, IgG by Immunoblot, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:31:00 PM
DPPX Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:49:00 PM
GABA-AR Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:50:00 PM
IgLON5 Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:53:00 PM
mGluR1 Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:54:00 PM
Ma2/Ta Antibody, IgG by Immunoblot, Ser	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:31:00 PM
KLHL11 Ab IgG CBA-IFA Screen, Serum	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 3:19:00 PM
P/Q-Type Calcium Channel Antibody	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 1:10:00 PM
Voltage-Gated Potassium Channel Ab, Ser	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/25/2025 4:23:00 PM
Ganglionic Acetylcholine Receptor Ab	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/23/2025 5:47:00 AM
Glutamic Acid Decarboxylase Antibody	25-106-161179	4/16/2025 1:28:00 PM	4/21/2025 1:06:37 PM	4/24/2025 5:34:00 PM

END OF CHART

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