

Patient Report | FINAL

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

Physician: Doctor, Example

Patient: Patient, Example

DOB 10/20/2012 Gender: Female

Patient Identifiers: 01234567890ABCD, 012345

Visit Number (FIN): 01234567890ABCD **Collection Date:** 00/00/0000 00:00

Toll-Like Receptor Function

ARUP test code 0051589

Toll-Like Receptor Function

See Note

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

Patient: Patient, Example ARUP Accession: 23-017-401653 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 1 of 3 | Printed: 1/23/2023 10:50:21 AM 4848



This test requires the submission of a client control sample to determine whether abnormal results observed in the patient sample are due to artifacts of specimen collection, transport, and/or handling, or patient condition. Abnormal patient results in the absence of a client submitted control sample should be correlated clinically and interpreted with caution.

TNF-a (pg/ml)

Media PAM3CSK4 Zymosan Flagellin CL097 LPS	PATIENT 0 77 436 65 426 373	CLIENT CONTROL NO CTRL	LAB CONTROL 9 500 951 514 1387 1613
IL-1b (pg/ml)			
Modia	PATIENT	CLIENT CONTROL	LAB CONTROL

Media 0 PAM3CSK4 103 Zymosan 624 Flagellin 67 CL097 693 LPS 262	CLIENT CONTROL NO CTRL	LAB CONTROL 1 279 1367 515 1997 2713
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IL-6

	PATIENT	CLIENT CONTROL	LAB CONTROL
Media	1	NO CTRL	20
PAM3CSK4	3425	NO CTRL	8042
Zymosan	2216	NO CTRL	2342
Zymosan Flagellin	2209	NO CTRL	6263
CL097	2959	NO CTRL	5278
LPS	5319	NO CTRL	>10240

Interpretation:

Normal cytokine responses to TLR 1,2,4-8 stimulation compared to simultaneously run controls, suggesting normal Toll-Like Receptor function.

The following reagents stimulate corresponding TLR ligands:

TLR2 and TLR1 TLR2 and TLR6 PAM3CSK4: Zymosan: Flagellin:

TLR5

CL097: TLR7 and TLR8

LPS: TLR4



INTERPRETIVE INFORMATION: Toll-Like Receptor Function

Toll-like receptors (TLR) are tested independently by stimulation with TLR-specific ligands in a peripheral blood mononuclear cell (PBMC) culture. PBMC production of IL-1 beta, IL-6, and TNF alpha is determined by multiplex bead assay for TLR 1,2,4-8.

TLR-specific ligands include Pam3CSK4, a synthetic bacterial lipoprotein (TLR2-TLR1 ligand); zymosan cell wall particles from Saccharomyces cerevisiae (TLR6-TLR2 ligand); lipopolysaccharide (LPS) ultra-pure S. minnesota LPS (TLR4 ligand); flagellin purified from S. typhimurium (TLR5 ligand); and CL097 imidazoquinoline compound (TLR7-TLR8 ligand).

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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.

VERIFIED/REPORTED DATES						
Procedure	Accession	Collected	Received	Verified/Reported		
Toll-Like Receptor Function	23-017-401653	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00		

END OF CHART

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

Patient: Patient, Example
ARUP Accession: 23-017-401653
Patient Identifiers: 01234567890ABCD, 012345
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