

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 1/26/1985
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Periprosthetic Joint Infection (PJI) Detection (Synovasure)

ARUP test code 2013008

PJI Detection (Synovasure)

See Note

Test Name	Result	Units	Flag	Clinical Decision Limits
SYNOVASURE PJI				
SYNOVASURE ALPHA DEFENSIN PJI	NEGATIVE			
ALPHA-DEFENSINS-SF CRP-SF	NEGATIVE 1.0	mg/L		>=3

Synovasure Periprosthetic Joint Infection (PJI) Comprehensive Lab Panel consists of laboratory tests intended for clinical use to aid in the diagnosis of periprosthetic joint infection in synovial fluid (SF) of patients experiencing pain and/or inflammation after total joint arthroplasty. Test performance for joints other than the knee and hip joint, or in joints with spacers or partial joint replacements, has not been established. Test results are intended to be used in conjunction with other diagnostic information, such as patient's clinical history and imaging techniques. Results do not preclude an alternative diagnosis.

The laboratory-developed tests (LDTs) used in this panel were developed and their performance characteristics were determined by CD Laboratories. CD Laboratories is certified under the Clinical Laboratories Improvement Amendments of 1988 (CLIA) as qualified to perform high complexity testing. The LDT tests comprising this panel have not been reviewed by the U.S. Food and Drug Administration.

For Technical Assistance regarding the Synovasure PJI Comprehensive Lab Panel, call the laboratory.

SYNOVASURE PJI LABORATORY DEVELOPED TESTS- DESCRIPTION AND INTERPRETATION

Test	Description
Specimen Integrity	The accuracy of synovial fluid diagnostics tests can be significantly impacted by the quality of the specimen that is submitted for evaluation. As part of specimen analysis, specimen integrity tests are performed. Clinicians are notified when a suboptimal specimen has been

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

Unless otherwise indicated, testing performed at:

submitted, and the test results should be interpreted with caution. The specimen integrity tests assess:

- Absorbance at 280 nm (A280) - Specimens that fall outside the normal range for synovial fluid may be diluted by saline or contrast agents
- Red Blood Cell Count - Specimens that have elevated levels of RBCs may be diluted by blood

Synovial Fluid
CRP

Synovial Fluid CRP has been demonstrated to be comparable to serum CRP for the detection of PJI. The Synovasure PJI LDT diagnostic algorithm utilizes CRP results in conjunction with Alpha Defensin results for the final determination. A CRP cut-off of 3 mg/L is recommended.

Synovasure Alpha
Defensin ELISA

Alpha defensins are antimicrobial peptides released by activated neutrophils in response to infection. The Synovasure Alpha Defensin (AD) ELISA is a qualitative in vitro test developed to detect human alpha defensins 1-3 in the synovial fluid of a person with a suspected joint infection. This test is covered by U.S. patent 7598080.

The results are intended to be used in conjunction with other clinical and diagnostic findings to aid in the diagnosis of infection.

Synovasure
Neutrophil
Elastase ELISA

The Synovasure Neutrophil Elastase (NE) ELISA is a qualitative in vitro test that measures neutrophil elastase in synovial fluid.

The results are intended to be used as a proxy for neutrophil detection in synovial fluid.

Synovasure
Microbial ID Panel

The Synovasure Microbial Identification (MID) Test is a qualitative in vitro diagnostic test intended for the early detection of microbial antigen in synovial fluid. The test measures antigens from Staphylococcus sp., Candida sp., Enterococcus sp. and Cutibacterium acnes (formerly called P. acnes) in the synovial fluid.

The results are intended to be used as an adjunct to synovial fluid culture and to detect the presence of an organism in culture negative samples.

Performed By: CD Laboratories, Inc
810 Gleneagles Court, Suite 100
Baltimore, MD 21286

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PJI Detection Anatomical Source

Left Knee

Performed By: CD Laboratories, Inc
810 Gleneagles Court, Suite 100
Baltimore, MD 21286

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
PJI Detection (Synovasure)	20-253-102743	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
PJI Detection Anatomical Source	20-253-102743	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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 20-253-102743
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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