

### PRODUCT DESCRIPTION:

**NATtrol™ Joint Infection Verification Panel\* (qualitative)** is formulated with purified, intact bacterial and fungal cells. The microorganisms have been chemically modified to render them non-infectious and refrigerator stable. NATJIP-BIO contains 32 x 0.2 mL vials of bacterial and fungal NATtrol™ and 5 x 1.4 mL of negative (matrix only) as listed in Table 1. The panel members are supplied in a proprietary matrix.

\*Pat.: <http://www.zeptometrix.com/patent-information/>

### INTENDED USE:

NATtrol™ Joint Infection Verification Panel can be used to develop procedures for verification of performance of molecular assays that detect the presence of bacterial nucleic acids (from organisms listed in Table 1). The panel can also be used for training and evaluation of operator proficiency.

### WARNINGS AND PRECAUTIONS:

- NATtrol™ inactivation was carried out on microorganism stocks used to formulate the panel members. The inactivation was verified in a standard microbiological growth protocol.
- This panel contains inactivated microorganisms and materials of human and animal origin. Safe practices suggest that the controls be considered potentially infectious and to use Universal Precautions when handling.
- Refer to CDC guidelines and local regulations for handling and disposal.
- The matrix used in the manufacture of this product is treated with 0.09% sodium azide. It was manufactured from Human Serum Albumin that have been tested and found to be non-reactive at the donor level for HIV-1/HIV-2 Antibody, HBsAg and HCV Antibody by FDA licensed donor screening test methods. All materials are also tested for HIV-1 and HCV by FDA approved Nucleic Acid Test (NAT) methods.
- Heat inactivated Fetal Bovine Serum used in the manufacture of this product meet applicable USDA requirements for abattoir sourced animals, traceability and country of origin. The materials were collected at USDA licensed establishments or legally imported from countries recognized by the USDA as negligible or controlled for risk for Bovine Spongiform Encephalopathy (BSE) and other exotic disease agents. Donor animals were inspected ante and post mortem at the abattoir as required by the USDA.
- Do not use past the expiration date on the label.
- To avoid cross-contamination, use separate pipette tips for all materials.

### RECOMMENDED STORAGE:

- NATtrol™ Joint Infection Verification Panel should be stored at 2-8°C.

### INSTRUCTIONS FOR USE:

- Mix tube vigorously for at least 5 secs.
- Process according to manufacturer's instructions for sample to result assays.
- Extract nucleic acid prior to use in downstream assays that are not sample to result.

### LIMITATION:

- FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES**
- Use in accordance with local, state, federal, and accreditation requirements.
- This product is not intended to replace the manufacturer's controls provided with the assay.

### EXPECTED RESULTS:

- Each laboratory must evaluate the product and establish their own performance criteria.
- This panel has been tested with the BioFire® Joint Infection Panel (JI) assay and provides all expected results for the panel members listed in Table 1. The table shown below is for informational purposes only.








**TABLE 1: PANEL MEMBERS**

Panel Member	Strain	Panel Member	Strain
<i>B. fragilis</i>	Z029	<i>K. pneumoniae</i>	Z460 <sup>2</sup> ; CTX-M/NDM
<i>C. albicans</i>	Z006	<i>M. morgani</i>	Z198 <sup>2</sup>
<i>C. freundii</i>	Z064	<i>N. gonorrhoeae</i>	Z017
<i>C. perfringens</i>	Type A	<i>P. aeruginosa</i>	Z139; VIM-1
<i>E. cloacae</i>	Z101	<i>P. anaerobius</i>	Z157
<i>E. coli</i> with <i>A. prevotii</i> plasmid	Recombinant <sup>1</sup>	<i>P. asaccharolyticus</i>	Z369 <sup>2</sup>
<i>E. coli</i> with <i>C. avidum</i> plasmid	Recombinant <sup>1</sup>	<i>P. micra</i>	Z237 <sup>2</sup>
<i>E. coli</i> with <i>C. granulosum</i> plasmid	Recombinant <sup>1</sup>	<i>P. mirabilis</i>	Z050
<i>E. coli</i>	Z297; IMP <sup>2</sup>	<i>S. agalactiae</i>	Z019
<i>E. faecalis</i>	VRE, vanB	<i>S. aureus</i>	COL; MRSA
<i>E. faecium</i>	VRE, Z347, vanA	<i>S. enterica typhimurium</i>	Z005
<i>F. magna</i>	Z201 <sup>2</sup>	<i>S. lugdunensis</i>	Z097
<i>H. influenzae</i>	MinnA	<i>S. marcescens</i>	Z053
<i>K. aerogenes</i>	Z052	<i>S. pneumoniae</i>	Z022
<i>K. kingae</i>	Z173	<i>S. pyogenes</i>	Z018
<i>K. pneumoniae</i>	KPC2	Negative	N/A
<i>K. pneumoniae</i>	Z138; OXA-48/CTX-M		

<sup>1</sup> This analyte only contains a short sequence of the bacterial genome, therefore each laboratory must evaluate performance in their assay.

<sup>2</sup> This strain is sourced and used under license from the National Collection of Type Cultures (NCTC®), Public Health England.

PINATJIP-BIO  
Revision: 01  
Effective Date: 04/17/2024

	Catalog Number		Temperature Limitation
	Batch Code		Expiration Date
	For Research Use Only		Biological Risk
	Manufacturer		

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