

PCR MOLECULAR REPORT

Patient:	TEST, PATIENT	MRN:	81650	Accession:	209222
Patient #:	86537	Birth:	1/17/1998	Collection Date:	1/18/2023 12:00 AM
Doctor:	Patient, Doctor	Age:	25 years	Received Date:	1/18/2023 8:48 AM HP
		Gender:	Male		

Location: Demo Location - DEMO

For Wound Infection

Pathogen	Result	CFU/mL or PFU/mL*	% of Pathogen
Bacterial Pathogens (CFU) <i>Run by HP on 1/18/2023 9:04:27 AM at Location: TH</i>			
Corynebacterium Panel 2 of 2 (tuberculostrictum, aurimucosum, simulans, pseudogenitalium, striatum)	Positive	4.45×10 ⁶	5.748%
Enterococcus faecium	Positive	6.38×10 ⁷	82.317%
Peptoniphilus harei	Positive	9.24×10 ⁶	11.935%
Yeast Pathogens (CFU) <i>Run by HP on 1/18/2023 9:04:27 AM at Location: TH</i>			
Viral pathogens (CFU) <i>Run by HP on 1/18/2023 9:04:27 AM at Location: TH</i>			

If there are no positive or negative results reported in the "Result" field above, this indicates an all negative report.

* The CFU/mL (for bacteria) or PFU/mL (for viruses) is calculated based on the difference between the cycle threshold value of the lower limit of detection and the actual cycle threshold value for a given pathogen from a patient sample. TEN Healthcare provides semiquantitative values because the polymerase chain reaction amplifies nucleic acids irrespective of the biological status of the pathogen.

POSITIVE PATHOGENS - AVAILABLE ANTIBIOTICS

Corynebacterium Panel 2 of 2 (tuberculostrictum, aurimucosum, simulans, pseudogenitalium, striatum)

Vancomycin
Linezolid
Daptomycin

Enterococcus faecium

Linezolid
Gentamicin
Vancomycin

Peptoniphilus harei

Metronidazole
Clindamycin

Antibiotic Resistance Markers by Gene

Antibiotic Resistant Genes	Result
TetM1 (Tetracycline resistance)	Positive
SHV2 (Class A beta Lactamases)	Positive

If there are no positive or negative results reported in the "Result" field above, this indicates an all negative report.

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DISCLAIMERS:

For additional questions or consultation regarding the Antibiotic Resistance Panel, please call Pharmacotherapy Solutions, LLC at PH: (314)-649-9512 or email at PCRPharmD@gmail.com.

For PCR Molecular Testing:

1. This test detects the presence of pathogen and must be evaluated with clinical symptoms to diagnose a disease. All PCR tests established and validated by the laboratory are not FDA approved. The standards for validation exceed FDA requirements.
2. The detection of viral and bacterial nucleic acid is dependent upon proper specimen collection, handling, transportation, storage and preparation. Failure to observe proper procedures in any one of these steps can lead to incorrect results.
3. Use of any medications in pregnancy should be dictated by potential risks vs. benefits and clinical judgement should be practiced for prescribing to women who are pregnant or may become pregnant.
4. Pharmacist consultations on appropriate antibiotic treatment along with recommendations made at the discretion of the physician based on known interaction is recommended.

TEN Healthcare contracts with Pharmacotherapy Solutions, LLC to provide antibiotic treatment recommendations. Recommendations are based solely on the pathogen and resistance results shown above, which represent a snapshot of the patient's microbiota. Dosages shown are based on FDA approved regimens and should serve as a frame of reference only. Additional patient factors must be considered before prescribing treatment, including but not limited to: age, allergies, comorbidities, potential drug interactions, renal/hepatic function, and cost.

For Clinical Blood Testing:

1. The quantitation of blood chemistry is dependent upon proper specimen collection, handling, transportation, storage and preparation. Failure to observe proper procedures in any one of these steps can lead to incorrect results.

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Bacterial Pathogens (CFU) <i>Run by HP on 1/18/2023 9:04:27 AM at Location: TH</i>			
Acinetobacter baumannii	Negative		
Anaerococcus vaginalis	Negative		
Bacteroides fragilis	Negative		
Citrobacter freundii	Negative		
Clostridium perfringens	Negative		
Clostridium septicum	Negative		
Corynebacterium Panel 1 of 2 (jeikeium, diphtheriae, ulcerans, pseudotuberculosis)	Negative		
Corynebacterium Panel 2 of 2 (tuberculostrictum, aurimucosum, simulans, pseudogenitalium, striatum)	Positive	4.45×10 ⁶	5.748%
Corynebacterium striatum	Negative		
Enterobacter aerogenes	Negative		
Enterobacter cloacae	Negative		
Enterococcus faecalis	Negative		
Enterococcus faecium	Positive	6.38×10 ⁷	82.317%
Escherichia coli	Negative		
Fingoldia magna/Peptostreptococcus magnus	Negative		
Fusobacterium necrophorum	Negative		
Fusobacterium nucleatum	Negative		
Klebsiella pneumoniae	Negative		
Peptoniphilus harei	Positive	9.24×10 ⁶	11.935%
Peptoniphilus ivorii	Negative		
Peptostreptococcus anaerobius	Negative		
Peptostreptococcus asaccharolyticus/Peptoniphilus asaccharolyticus	Negative		
Peptostreptococcus prevotii	Negative		
Proteus mirabilis	Negative		
Pseudomonas aeruginosa	Negative		
Serratia marcescens	Negative		
Staphylococcus aureus	Negative		
Staphylococcus epidermidis	Negative		
Staphylococcus lugdunensis	Negative		
Staphylococcus saprophyticus	Negative		
Streptococcus agalactiae	Negative		
Streptococcus pneumoniae	Negative		
Streptococcus pyogenes	Negative		
Treponema pallidum	Negative		
Yeast Pathogens (CFU) <i>Run by HP on 1/18/2023 9:04:27 AM at Location: TH</i>			
Candida albicans	Negative		
Candida glabrata	Negative		

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For Wound Infection

Pathogen	Result	CFU/mL or PFU/mL*	% of Pathogen
Candida parapsilosis	Negative		
Candida tropicalis	Negative		
Viral pathogens (CFU)		Run by HP on 1/18/2023 9:04:27 AM at Location: TH	
Herpes Simplex Virus 1	Negative		
Herpes Simplex Virus 2	Negative		
Varicella Zoster Virus	Negative		

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POSITIVE PATHOGENS - AVAILABLE ANTIBIOTICS

Corynebacterium Panel 2 of 2 (tuberculostrictum, aurimucosum, simulans, pseudogenitalium, striatum)

Vancomycin
Linezolid
Daptomycin

Enterococcus faecium

Linezolid
Gentamicin
Vancomycin

Peptoniphilus harei

Metronidazole
Clindamycin

Antibiotic Resistance Markers by Gene

Antibiotic Resistant Genes	Result
VanA1 (Vancomycin resistance)	Negative
VanA2 (Vancomycin resistance)	Negative
VanB1 (Vancomycin resistance)	Negative
MecA1 (Methicillin resistance)	Negative
ermA (Macrolide Lincosamide Streptogramin resistance)	Negative
ErmB1 (Macrolide Lincosamide Streptogramin resistance)	Negative
ermC (Macrolide Lincosamide Streptogramin resistance)	Negative
mefA (Macrolide Lincosamide Streptogramin resistance)	Negative
qnrA2 (Fluoroquinolone resistance)	Negative
qnrB (Fluoroquinolone resistance)	Negative
TetM1 (Tetracycline resistance)	Positive
ACT/MIR (AmpC beta lactamase resistance)	Negative
FOX (AmpC beta lactamase resistance)	Negative
IMP1 (Class B metallo beta lactamase resistance)	Negative
IMP2 (Class B metallo beta lactamase resistance)	Negative
KPC2 (Class A beta lactamase resistance)	Negative

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(UTC-06:00) Central Time (US & Canada)

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Lab Results for: TEST, PATIENT

STAT[S] Corrected [C] Amended [A]

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Antibiotic Resistance Markers by Gene

Antibiotic Resistant Genes	Result
NDM 1 (Class B metallo beta lactamase resistance)	Negative
SHV2 (Class A beta Lactamases)	Positive
VIM 1 (Class B metallo beta lactamase resistance)	Negative
ACC 4 (AmpC beta lactamase resistance)	Negative
OXA 48 (Class D Oxacillinase resistance)	Negative
OXA 51 (Class D Oxacillinase resistance)	Negative
PER 1 (Minor Extended Spectrum beta lactamases resistance)	Negative
VEB 1 (Minor Extended Spectrum beta lactamases resistance)	Negative
GES-1 (Minor Extended Spectrum beta lactamases resistance)	Negative
dfr A1 (Trimethoprim/Sulfamethoxazole resistance)	Negative
dfr A5 (Trimethoprim/Sulfamethoxazole resistance)	Negative
sul1 (Trimethoprim/Sulfamethoxazole resistance)	Negative
sul2 (Trimethoprim/Sulfamethoxazole resistance)	Negative
CTX M1 (Class A beta lactamase resistance)	Negative
CTX M9a (Class A beta lactamase resistance)	Negative
CTX M2 (Class A beta lactamase resistance)	Negative
CTX M8/M25 (Class A beta lactamase resistance)	Negative
ampC/CMY2 (Ampicillin resistance)	Negative
BIL/LAT/CMY (beta lactamase resistance)	Negative
MecC1 (Methicillin resistance)	Negative
blaSHV 5 (Class A beta Lactamases)	Negative
MCR-1 (mobilized colistin resistance, extended beta Lactamases)	Negative
CFR23S (Chloramphenicol florfenicol resistance)	Negative
TetS1 (Tetracycline resistance)	Negative
CMY/MOX (beta lactamase resistance)	Negative

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