INSTRUCTIONS FOR USE

INTERDID USE

The Rapid Strep A. Antigen Test is a rapid chromatographic immunoassay for the qualitative detection of Streptococcus progenes (Group A B-hemolytic Streptococcus, Strep A) entigen from throat sweb specimens of symptomatic Streptococcus. Strep A) entigen from throat sweb specimens of symptomatic patients to aid in the diagnosis of Group A Streptococcus bacterial infection. All negative test results should be confirmed by bacterial culture because negative results do not preducial infection with Group A Streptococcus and should not be used as the sole basis for treatment.

The Rapid Strep A Antigen Test is a rapid test to qualitatively detect the presence of Group A Streptococcal antigen in throat swab specimens, providing results with Tamitus. The test utilizes specific and sensitive antibodies reactive to the Rapid Strep A Antigen and is specific to group A with no cross-reactivity from other groups of Streptococci.

PRINCE/IE

The Rapid Strep A Antigen Test is a qualitative, lateral flow immunoassay for the detection of Strep A, carbohydrate antigen in a throat swab. In this test, an ambibody specific to Strep A carbohydrate antigen is coated on the test. In enablody specific to Strep A carbohydrate antigen is coated on the test. In engine of the test. During testing, the extracted throat swab specimen reacts with an ambibody to Strep A that is coated onto particles. The mixture migrates up the membrane to react with the antibody to Strep A on the membrane and generate a cobir in eith test late region. The presence of this cobir lies in the test line region. The presence of this cobir lies in the test line region indicates a positive result, while it a between dictates a negative control line region, indicating a strep of the street in the strep is the control line region, indicating that proper volume of specimen has been added and membrane wicking has occurred.

- 10mL; 0.2M Acetic Acid
 1 Positive Control
 1mL: Non-viable Strep A; 0.05% Proclin300
 1 mL: Non-viable Strep C; 0.05% Proclin300
 1 mL: Non-viable Strep C; 0.05% Proclin300

- **Timer, dock, or vactor as species.**

 Mankinds AND PRECAUTION

 This let is for prescription, or vidro dispressic use only.

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 Do not use the test let if the pouch is punctured or not well sealed.

 Do not interchange estigent bottle caps.

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KIT STORAGE AND STABILITY

SPECIMEN COLLECTION AND PREPARATION

- SPECIMEN COLLECTION AND PREPARATION

 Only use the reagents and stellie swabs provided in the kit.

 Collect the throat swab specimen with the sterile swab that is provided in the
 kit. Swab the postorior planyn, to tonig and other inflamed areas.

 Avoid touching the tongue, cheeks and teeth with the swab.

 Testing should ideally be performed inmediately after the specimens have
 been collected Swab specimens may be stored in a clean, dry plastic tube for
 up to 48 hours at room temperature [15.30° (59.86°F)] or 72 hours at 2-8°° (59-66°F).

 18 a cutture is desired, lightly roll the swab tip norto a Crupu A selective (GAS)
 blood agair plate before using the swab in the Rapid Strep A Antigen Test.

TEST PROCEDURE

IMPORTANT: Do not remove the test strip from the foil pouch until ready to perform the assay. Allow the test strip, reagents, throat swab specimen, and/or controls to reach room temperature [15-30°C [59-66°F]] prior to testing.

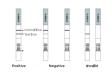
- vertically and add 4 full drops to the tube. Reagent B is colorless. Mix the solution to gently serving the extraction tube.

 It mentals to place the throat sole into the extraction tube, Agitate the sole 10 times in the tube. Leave the most sole for 1 minute. Then, press the solve against the side of the tube and squeeze the bottom of the tube as the solve layer. The side of the tube and squeeze the bottom of the tube as the solve la switch forward. Discard the soils.

 Remove the test strip form the foll plouch. Place the test strip into the tube with the arrows of the strip pointing down and then start the time. Do not handle or more the strip until the test is complete and reddy for reading. Whill for the colored linelight to appear. Read the result at 5 minutes. Do not read the result after 10 minutes.



INTERPRETATION OF RESULTS



Two lines appear. One colored line should be in the control line region (C) and another apparent colored line should be in the test line region (T).

One colored line appears in the control line region (C). No line appears in the test line region (T).

Invalid Result
Control line fails to appear.

NOTE: Insufficient specimen volume, incorrect operation procedure, or the use of expired tests are the most likely reasons for control band failure.

LIMITATIONS

The Rapid Steep A Antigen Test is for in vitro diagnostic use only. The test should be used for the detection of Croup A Streptococcal antigen in throat swab specimens only. Neither the quantitative value nor the rate of increase in Croup A Streptococcal antigen onconeration on be determined by this gualitative test. This test will only indicate the presence of Croup A Streptococcal antigen in the specimen from Dout visible and non-visible droup A Streptococcus bacterium.

A negative result must be confirmed by culture. A negative result may be

obtained if the concentration of the Croup A Streptococcal antigen present in the throat swab is not adequate or is below the detectable level of the test. The serfiel evable provided with this test must be used for specimen collection Other swabs have not been validated with this test. As with all diagnostic tests all results must be interpreted together with other clinical information available to the physician.

Built-in Procedural Control Features
Internal procedural controls are included in the test. A color line appearing in
the control region (C) is an internal positive procedural control. It confirms

External Quality Control
In addition to your biboratory's standard quality control procedures, it is
recommended that positive and negative external controls be tested at least
once per kill bot number and by each new untrained operator. This will verify
that the reagents and test strips are working properly, and the operator is able
to correctly perform the test procedure.

- Procedure for External Quality Control Testing

 1. Add 4 full drops of Resignet A and 4 full drops of Resignet B into an extraction tube. Tage the bottom of the tube genity to mix the leguid.

 2. Add 1 full drop of positive or regardive control solution into the tube, holding the bottle uprince, into this extraction tube and aginst the souls in the solution process of the process of the solution into the tube, holding the bottle uprince, into this extraction tube and aginst the souls in the solution by rotating it at least 10 times. Leave the sweb in the extraction tube and for I minute. Then express the liquid from the sweb has day rolling in the web against the inside of the extraction tube and squeezing the extraction tube as the sweb is withdrawn. Discort the sweb.

 4. Continue with Step 3 in the TEST PROCEDURE Section. If the controls do not yield the expected resulfs, do not use the test results. Repeat the test or contact Technical Services or Customer Support.

PEPFORMANCE CHARACTERISTICS

Analytical Sensitivity

The limit of detection of the test is 72-10° CFU/mL. This was established by testing cultures of Streptococcus progenes with a known number of organisms. ATCC 9615. The organisms were sensitly diluted and spiked with dirtical matrix and tested using the Pagid Step A Antique Test.

Clinical Sensithing and Specificity
The Rapid Storp Andigen Test vasued to evaluate 369 throat ovab.
Specimens collected from patients presenting with phayngitis from three
physician offices. The test resilt compared to the culture method. The below
table summarizes the data.

Clinical Performance: Rapid Strep A AntigenTest vs. Culture

INDICAID™ Rapid Strep A	Culture Results	
Antigen Test Results	Positive	Negative
Positive	200	1
Negative	6	161
Total	206	162

Clinical Performance Stratified by Age

	Age	Sensitivity	95% CI	Specificity	95% CI
Г	0 - 5	97.4% (74/76)	90.4% - 99.8%	98.1% (52/53)	89.1% - 100.0%
	>5 21	96.7% (119/123)	91.7% - 99.0%	100% (8B/88)	95.0% - 100.0%
	>21	100% (7/7)	59.6% - 100.0%	100% (21/21)	81.8% - 100.0%
Г	All	97.1% (200/206)	93.7% - 98.8%	99.4% (161/162)	96.2% - 100.0

Cross-reactivity
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Microorganism	Concentration Tested
Arcanobacterium haemolyticum	2.6×10° CFU/mL
Bordetella pertussis	7.5×10 ⁸ CFU/mL
Candida albicans	9.5×10° CFU/mL
Corynebacterium diphtheria	5.37×10° CFU/mL
Enterococcus faecalis	2.3×10 ^a CFU/mL
Enterococcus faecium	4.4×10 ^a CFU/mL
Enterovirus (VR-28 Human Coxsackievirus)	1.6×10° TCID _{so} /mL
Escherichia coli	1.1×10 ⁸ CFU/mL
Fusobacterium necrophorum	7.3×103 CFU/mL
Haemophilus parahaemolyticus	1.3×10+ CFU/mL
Haemophilus influenzae	4.5×10° CFU/mL
Haemophilus parainfluenzae	1.6×108 CFU/mL
Human metapneumovirus (HMPV-27 A2)	3.55×10 ⁵ TCID _{ss} /mL
Human coronavirus OC43	1.7×105 TCID _{cs} /mL
Klebsiella pneumoniae	3.1×10 ^a CFU/mL
Legionella pneumophila	1×10+ bacteria/mL
Lactobacillus sp. (Lactobacillus casei)	6.5×10° CFU/mL
Mycobacterium tuberculosis	1×10 ³ bacteria/mL
Moraxella lacunata	1.95×10° CFU/mL
Moraxella (Branhamella) catarrhalis	4.8×109 CFU/mL
Mycobacterium tuberculosis (avirulent strain)	2,3×10° CFU/mL
Neisseria gonorrhoeae	3.8×10° CFU/mL
Neisseria lactamica	1.19×10 ⁹ CFU/mL
Neisseria meningitides	7.5×10 ⁸ CFU/mL
Neisseria mucosa	3.25×10 [®] CFU/mL
Neisseria sicca	8.5×10° CFU/mL
Neisseria subflava	3.27×10" CFU/mL
Staphylococcus epidermidis	2.1×10 ^s CFU/mL
Staphylococcus marcescens	1.5×10° CFU/mL
Staphylococcus haemolyticus	1.58×10 ^s CFU/mL
Streptococcus agalactiae (Group B)	7.9×107 CFU/mL
Streptococcus dysgalactiae (Group C)	1.43×10°CFU/mL
Streptococcus sp. (bovis II) Group D	5,6×10° CFU/mL
Streptococcus sp. Strain H60R (Group F)	1×10° CFU/mL
Streptococcus anginosus (Group G)	4.2×107 CFU/mL
Streptococcus pneumoniae	4.2×10°CFU/mL
Streptococcus salivarius	8.7×10° CFU/mL
Streptococcus mitis	5.9×10° CFU/mL
Streptococcus mutans	4.7×10°CFU/mL
Streptococcus oralis	6.4×10° CFU/mL
Streptococcus sanguis	1.5×10° CFU/mL
Yersinia enterocolitica	2.0×10° CFU/mL

Microorganism	Concentration Tested
Adenovirus Type I	3.09×109 TCID ₅₀ /mL
Adenovirus Type II	3.9×107 TCID ₅₀ /mL
Adenovirus 3	1.5×10° TCID _{so} /mL
Adenovirus 7	2.8×10 ⁶ TCID ₅₀ /mL
Cytomegalovirus	1.6×105 TCID _{so} /mL
Epstein Barr Virus	7.85×10 ² copies /mL
HSV Type 1 MacIntyre strain	1.6×10° TCID _{sc} /mL
Human parainfluenza Type 1	1.6×10° TCID _{so} /mL
Human parainfluenza Type 2	1.6×10° TCID ₅₀ /mL
Human parainfluenza Type 3	1.6×105 TCID _{so} /mL
Human rhinovirus 26	5×10° TCID _{so} /mL
Measles Virus	8.9×10 ⁵ TCID ₅₀ /mL
Proteus vulgaris	2.9×10°CFU/mL
Pseudomonas aeruginosa	5.1×10 ⁶ CFU/mL
Serratia marcescens	2.1×10° CFU/mL
Staphylococcus aureus	3.2×10 ⁶ CFU/mL
Mumps virus	1.38×107 TCID _{so} /mL
Respiratory syncytial virus Type A	5.5×10° PFU/mL
Respiratory syncytial virus Type B	2.8×105 TCID,/mL

Interference Substances, naturally present in respiratory specimens or to may be artificially introduced into the upper respiratory tract, were evalu-with the Rapid Strep A Antigen Test at the concentrations listed below ar were found not to affect test performance.

Interfering Substance	Concentration Tested
Endogenous	
Blood (human)	20% (vol/vol)
Mucin	1 mg/mL
OTC Mouthwashes	
Colgate Total Pro-Shield, Spearmint	20% (vol/vol)
Crest Pro Health Multi Protection Clean Mint	20% (vol/vol)
Crest Pro-Health Clean Mint	20% (vol/vol)
Listerine Antiseptic Cool Mint	20% (vol/vol)
OTC Lozenges	
Cepacol Extra Strength Sore Throat & Cough Drop Lozenges, Cherry	5 mg/mL
Halls Mentho-Lyptus Drops Cherry	5 mg/mL
Halls Cough Suppressant Cherry Triple Soothing Action	5 mg/mL
Sucrets Sore Throat Lozenges Cherry	5 mg/mL
Sucrets Sore Throat & Cough Lozenges, Honey Lemon	5 mg/mL
OTC Throat Sprays	
Cepacol Dual Relief	20%(vol/vol)
Chloraseptic Max	20%(vol/vol)
OTC Cough Syrups	
Basic Care Tussin DM, Cough Suppressant &	10%(vol/vol)
Expectorant	10%(vol/vol)
Children's Dimetapp Cold & Cough	10%(vol/vol)
Robitussin Nighttime Cough	10%(vol/vol)
Robitussin (Guaifenesin Syrup)	10%(vol/vol)
Tylenol Cough and Sore Throat	10%(vol/vol)

Active Ingredients	Concentration Tested
Acetaminophen (Tylenol)	5 mg/mL
Brompheniramine Maleate	5 mg/mL
Chlorpheniramine Maleate	5 mg/mL
Dextromethorphan HBr	5 mg/mL
Diphenhydramine HCI	5 mg/mL
Doxylamine Succinate	5 mg/mL
Guaifenesin (Guaiacol Glyceryl)	5 mg/mL
buprofen (Advil)	5 mg/mL
henylephrine HCI	5 mg/mL

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UDI Unique device IVD In vitro diagnostic Warning medical device







If you have any questions regarding the use of this product, please call our Technical Support Number 1-877-625-1603 (9 a.m. to 5 p.m. CDT).