

STREP A

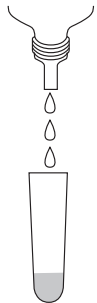


WITH **OBC**

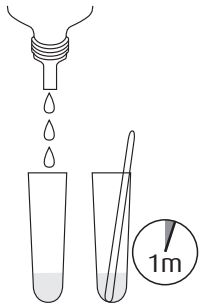
Inverness Medical

TEST PACK *Plus*

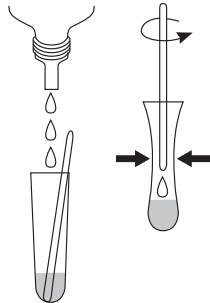
1 REAGENT 1



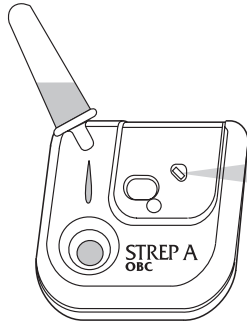
2 REAGENT 2



3 REAGENT 3



4



5





NEGATIVE NEGATIIVINEN NEGATIEF
NEGATIV NÉGATIF NEGATIVO
NEGATIV Αρνητικό NEGATIVT
NEGATIVO NEGATIVO سلبی



POSITIVE POSITIIVINEN POSITIEF
POSITIV POSITIF POSITIVO
POSITIV Θετικό POSITIVT
POSITIVO POSITIVO إيجابي



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INTENDED USE

INVERNESS MEDICAL TESTPACK PLUS STREP A with On Board Controls (OBC) (TESTPACK STREP A) is a rapid immunoassay for the qualitative detection of Group A Streptococcal (Group A Strep) antigen in throat swab specimens from patients with suspected Group A Strep associated pharyngitis and for confirmation of presumptive Group A Strep colonies isolated on culture plates. For professional in vitro diagnostic use only.

SUMMARY AND EXPLANATION OF THE TEST

Beta-haemolytic Group A *Streptococcus* is a major cause of upper respiratory infections in humans. The most commonly occurring Group A Streptococcal disease is pharyngitis. The symptoms of this, if left untreated, can become more severe and further complications such as acute rheumatic fever, toxic shock-like syndrome and glomerulonephritis can develop¹. Rapid identification can facilitate clinical management to prevent disease progression.

TESTPACK STREP A with on board controls (OBC) employs the Lancefield grouping method of identification, where Streptococcal groups are identified according to their cell wall antigens, which are species specific^{2,3}.

Conventional methods used to identify Group A *Streptococcus* involve the isolation and subsequent identification of the organisms which can take 24-48 hours to complete^{2,3}. TESTPACK STREP A detects Group A Streptococci directly from throat swabs so that more rapid results are achieved. The test detects bacterial antigen from swabs, therefore it is possible to detect Group A *Streptococcus*, which may fail to grow in culture.

PRINCIPLE OF TEST PROCEDURE

The Streptococcal Group A specific antigen is extracted from the throat swab using Reagent 1 and Reagent 2. Following this, Reagent 3 is added to neutralise the acid formed by Reagents 1 and 2.

The mixture is then dropped into the Sample Well of the reaction disc and allowed to migrate through the membrane until it reaches the End of Assay Window. As the specimen extract migrates through the membrane, it mobilises the Group A Strep antibody-coated colloid.

If Group A Streptococcal antigen is present in the specimen it will form a complex with the antibody-colloid. The antibody colloid complex migrates through the membrane and is then captured by the Group A Strep antibody in the result window, providing a visual indication of the presence of antigen.

The test can be read when the End of Assay Window has turned pink/red. A pink/red Plus Sign (+) appearing in the Result Window indicates the presence of the Group A Strep antigen. A Minus Sign (-) indicates no antigen was detected.

TESTPACK STREP A also provides the following integral control features:

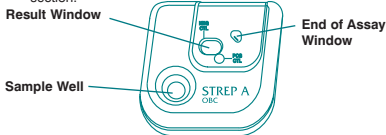
- Extraction reagents are colour coded to indicate that Reagents 1, 2, and 3 are added in the proper order.
- The plus/minus format provides an easy to interpret result for positive and negative patient specimens.
- The appearance of a pink/red colour in the End of Assay Window indicates that the test is complete.
- The appearance of the Positive On Board Control (POS CTL ✓) and the Minus Sign (-) gives an extra measure of quality control by demonstrating the functionality of the antibody-colloid complex and capture antibody systems, since they will only appear if the reagents are chemically active. The POS CTL (✓) and the Minus Sign (-) should always appear, for the test be valid.
- An additional Negative On Board Control (NEG CTL X) indicates non-specific binding and invalidates the test.

KIT CONTENTS

REAGENT 1	2.0M Sodium Nitrite (& Xylenol Orange) (10 ml)
REAGENT 2	1.0 M Acetic Acid (10 ml)
REAGENT 3	1.0 M Tris Buffer (Preservative: Sodium Azide) (10 ml)

- 20 or 40 reaction discs containing: Group A Strep Antibody [Sheep & Rabbit], Group A Strep Antigen, Horse IgG and Goat Antibody
- Pack of 20/40 extraction tubes and 20/40 dropper tips
- 20/40 sterile Polyester (Dacron-tipped) swabs
- One package insert

External controls are available. Refer to the Quality Control section.

**KIT STORAGE**

Store TESTPACK STREP A at 2-30°C for the duration of the shelf life. Kit components are stable until expiration date when handled and stored as directed.

PRECAUTIONS

Standard guidelines for handling infectious agents should be observed throughout all procedures.

1. It is recommended that disposable gloves be worn whilst handling specimens.
2. Do not mix extraction reagents and reaction discs from different lots.
3. Do not mix reagent bottle caps.
4. Reagent 2 or Reagent 1 combined with Reagent 2 is acidic. Avoid contact with eyes or mucous membranes. In the event of accidental contact, wash thoroughly with water.
5. Reagent 3 contains sodium azide, which on contact with lead and copper plumbing may react to form explosive metal azides. Use large volumes of water to flush reagents on disposal.
6. Properly dispose of all contaminated waste such as swabs, reaction discs and extract.
7. Do not use reaction discs or swabs that have become wet or if the pouch has been opened or damaged.
8. Do not open the foil pouch until ready to test.
9. Recap the reagent bottles between uses.
10. Do not use kit beyond expiration date printed on the outside of the kit carton.

Hazard information for the components under applicable European Community (EC) Directives is as follows:

Reagent 1 - Toxic: Contains sodium nitrite

R25 Toxic if swallowed

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

S60 This material and its container must be disposed of as hazardous waste

Reagent 2 - Safety data sheet available for professional user on request

Reagent 3 - Harmful: Contains sodium azide

R22 Harmful if swallowed

S60 This material and its container must be disposed of as hazardous waste

SPECIMEN COLLECTION & STORAGE

A specimen should be obtained by standard throat swab collection methods⁵⁶. Use Polyester (Dacron-tipped) swabs only. Do not use calcium alginate swabs, semi-solid transport media, or media containing charcoal.

Swabs must be processed as soon as possible after specimen collection. If swabs are not to be processed immediately, they can be stored in clean, dry sealable plastic tubes refrigerated (2-8°C) for up to 72 hours before testing.

NOTE: To use TESTPACK STREP A as a culture confirmation test, remove an isolated beta-haemolytic colony from the culture plate with a clean Polyester (Dacron-tipped) swab. Proceed as described in the Procedure section.

PROCEDURE

All components (e.g. reagents and reaction discs) must be brought to 18-30°C for a minimum of 30 minutes, if stored refrigerated at 2-8°C, before beginning the assay. Do not open foil pouches until ready to perform the assay.

Extraction

For diagram, refer to work station (Steps 1-3)

All drops must be free falling with the reagent bottles held vertically.

1. Add 3 drops of Reagent 1 to an extraction tube.
This solution must be pink.
2. Add 3 drops of Reagent 2 to the same tube.
This solution must turn yellow.
3. Place the specimen swab into the tube.
Twirl swab and mix well. Let stand for a minimum of 1 minute, but no longer than 30 minutes.
4. Add 3 drops of Reagent 3 to the same tube.

Twirl swab and mix well. This solution must turn pink. Occasionally it may be necessary to add a fourth drop of Reagent 3 to obtain colour change.

5. **Thoroughly express the liquid from the swab by squeezing the tube with the thumb and forefinger, then rotating it as it is withdrawn.**
6. Discard the swab safely.
7. Apply the dropper tip to the extraction tube.

The extraction mixture is stable for up to 72 hours refrigerated (2-8°C) in a covered tube.

Test Procedure

For diagram, refer to work station (Step 4)

Remove the reaction disc from its foil pouch. Label with patient or control identifications. Place on a clean, flat, dry surface.

8. Add the entire contents of the extraction tube drop-wise into the Sample Well on the reaction disc.
9. Wait for a pink/red colour in the End of Assay Window to appear (approximately 5 minutes). Read results.

Do not interpret results after 10 minutes from addition of specimen.

Refer to the Interpretation of Results and Performance Characteristics sections.

QUALITY CONTROL

Quality control procedures monitor the quality of the assay testing process. Both the External Controls and the Internal/On Board Controls will monitor substantial reagent failure or procedural error, but will not monitor optimal performance of reagents.

The following process is recommended for quality control for TESTPACK STREP A. In addition, refer to your laboratory standard operating procedures and/or quality assurance plan for additional quality control requirements/documentation.

Internal Quality Control

TESTPACK STREP A utilises an internal On Board Control system consisting of five control features in the performance of each assay to ensure the assay is functioning properly.

The following procedural control features are performed with each patient specimen.

- Extraction Reagent Control is demonstrated by colour changes during the swab extraction process to indicate that Reagents 1, 2 and 3 are added in the correct order. Reagent 1 is pink, but will change to yellow when Reagent 2 is added. After adding Reagent 3 the solution changes back from yellow to pink. If either of the colour changes does not occur (pink to yellow or yellow to pink), the test is invalid.



- Positive On Board Control (POS CTL ✓): As the specimen migrates along the test strip the deposited Strep A specific antigen is resolubilised and is captured by the anti-Strep A linked colloid. This complex continues to migrate and is bound by the anti-Strep A antibody to form the POS CTL (✓). The POS CTL (✓) indicates that both the antibody-colloid complex and capture antibody systems are functional. The POS CTL (✓) will appear if the test reagents are working correctly whether there is analyte present in the test specimen or not. The POS CTL (✓) must appear for a valid test.



- Negative On Board Control (NEG CTL): The NEG CTL "X" is composed of non-immune sheep antibody. Formation of the NEG CTL (X) in the Result Window indicates that the test specimen may contain a non-specific entity that could cause a false positive result. If the NEG CTL (X) appears in the result window, the test is invalid.

- Minus sign (-): As the specimen extract migrates along the test strip, Horse IgG colloid complex binds to the immobilised Goat anti-horse IgG antibody on the Minus Sign to form a "-". The appearance of the Minus sign (-) indicates that migration of the specimen has occurred across the reaction disc. The absence of the Minus sign (-) may indicate improper addition of extraction reagents or deterioration of the reaction discs. Any colour on the Minus sign (-) should be interpreted as a valid Quality Control result. The Minus sign (-) must appear for the assay to be valid.

- End of Assay Window: The pink or red colour in the End of Assay Window after specimen addition indicates specimen migration has completed across the reaction disc, the test is complete and the result can be read. The pink/red colour must appear in the End of Assay Window for the assay to be valid.

Do not interpret results after 10 minutes from addition of specimen.

Repeat any invalid test with a new reaction disc and read for presence of the above controls. If problem persists, please contact your local distributor.

External Quality Control

The use of external controls will also monitor the entire assay process, including the extraction. Good laboratory practice recommends the use of control materials to ensure proper kit performance. Each laboratory should refer to guidelines established internally and by local, national or other accrediting organisations. External Positive and Negative Controls are available as an optional means of quality control testing.

Alternatively use a sterile swab to obtain a confirmed Group A Streptococcal colony from a culture plate and subject this to the complete test procedure. NOTE: a fresh sterile swab treated as a throat specimen can be used as a negative control. In addition, reference strains of *Streptococcus pyogenes* such as ATCC or NCTC may also be used as external positive controls. Use reference strains of non-Group A *Streptococcus* as external negative controls.


External controls should result in a positive or negative result, similar in colour to those of patient specimens. However, colour intensity of the Plus sign (+) in the Result Window on the reaction disc for positive results from actual patient samples may be fainter than that achieved with the positive external control. See Interpretation of Results section below. If the external controls do not produce the expected result, the test is invalid and the patient test result should not be reported. Repeat testing of Positive/Negative Controls and patient specimens with new reaction discs. If the problem persists, call your local distributor.

INTERPRETATION OF RESULTS

The TESTPACK STREP A result format consists of one vertical line and one horizontal line that form a Plus Sign. The vertical line is the Patient Bar and the horizontal line is the Minus Sign.



- A **positive** result at end of assay is indicated by a plus sign (+) in the Result Window. Pink or red colour (darker than the background) on the Patient Bar is interpreted as a positive result even if it has less colour than the Minus Sign. Randomly occurring red dots should not be evaluated in the interpretation of results.

 A **negative** result at end of assay is indicated by the Minus Sign (-) in the Result Window.

A negative result means that no Group A Strep antigen was detected, or that the levels of antigen in the specimen were below the detection limit of the assay.

A **valid** TESTPACK STREP A test consists of all of the following:

- Extraction: A pink to yellow to pink colour change during the swab extraction process.
- Appearance of the Minus Sign (-) in the Result Window on the reaction disc.
- Absence of NEG CTL (X) within the result window on the reaction disc.
- Appearance of POS CTL (✓) within the designated POS CTL window on the reaction disc.
- Appearance of pink/red colour in the End of Assay window on the reaction disc.

An invalid result or the absence of a Plus (+) or Minus (-) sign may indicate improper addition of reagents or deterioration of the reaction disc.

If the test is invalid, retest with a new specimen and a new reaction disc, ensuring sufficient specimen addition and read for presence of the above controls. If the problem persists, call your local distributor.

LIMITATIONS OF THE TEST

1. Reliable results are dependent on proper specimen collection and adherence to the test procedure. The use of swab types other than Polyester (Dacron-tipped) swabs, swabs taken from sites other than the back of the throat or the use of other specimens such as saliva, sputum, or urine has not been established.
2. This test does not differentiate between carrier and infected individuals. Pharyngitis may be caused by organisms other than

Group A *Streptococcus*. Performance characteristics in populations other than those studied during the clinical investigation have not been determined.

3. A negative result may be obtained if the amount of extracted antigen is below the sensitivity of the test.
4. False negative results may occur from incorrectly taken/extracted samples.
5. Additional follow-up testing using the culture method is required if the result is negative and clinical symptoms persist.
6. The On Board Controls do not guarantee that the specimen has been added or that all subsequent procedural steps have been correctly performed.
7. Confirmation of colonies selected from culture plates other than SBA, SBASXT or SSA has not been established.

EXPECTED VALUES

It is believed that approximately 19% of all upper respiratory tract infections are caused by Group A *Streptococcus*². Group A Strep associated pharyngitis displays a seasonal variation and is most prevalent during the Winter and early Spring. Certain populations are at higher risk of infection for example in schools, nursing homes and hospitals, and clustering of cases does occur^{8,9}.

CALIBRATION

TESTPACK STREP A is calibrated using in-house standards produced from dilutions of a Group A Streptococcal antigen.

PERFORMANCE CHARACTERISTICS

Clinical performance of TESTPACK STREP A compared with standard sheep blood agar culture

In a multi-centre field evaluation, two throat swabs were collected simultaneously from children and adults presenting to clinics with symptoms of pharyngitis. One swab was tested by clinic staff

according to each clinic's normal standard of care. The remaining swab was retained for evaluation of TESTPACK STREP A and was either tested immediately or stored at 2-8°C in transport tubes prior to testing. All swabs were tested on the day of collection.

Swabs retained for evaluation of TESTPACK STREP A were used to inoculate a sheep blood agar (SBA) plate, prior to being tested using the TESTPACK STREP A test. Plates were incubated for 24-48 hours at 35°C with 5-10% CO₂. Presumptive group A *Streptococcus* colonies on SBA culture plates were confirmed using a commercially available Streptococcal latex grouping test.

Results were obtained for 369 patients, of which 125 were found positive by standard SBA culture and 244 were found negative. The sensitivity of the TESTPACK STREP A test was 97.6% when compared to standard SBA culture (95% confidence interval [CI]: 93.1-99.5%). The specificity of the TESTPACK STREP A test was 98.4% when compared to standard SBA culture (95% confidence interval [CI]: 95.9-99.6%).

The results are summarised below:

Individual test results compared to standard SBA culture:

	SBA+	SBA-	Total
TESTPACK STREP A +	122	4	126
TESTPACK STREP A -	3	240	243
Total	125	244	369

Sensitivity: 122/125 = 97.6%

Specificity: 240/244 = 98.4%

Individual test results compared to SBA culture density:

For visually positive SBA plates, clinicians recorded the density and growth of presumptive group A Streptococcus colonies. The results from SBA culture and the corresponding TESTPACK STREP A rapid results are compared below:

Culture density	TESTPACK STREP A +
1+	82% (9/11)
2+	96% (23/24)
3+	100% (39/39)
4+	100% (51/51)

INTERFERING SUBSTANCES

No cross reactivity was found when TESTPACK STREP A was tested with the bacteria listed below (bacteria which can be found in respiratory tract specimens). Organisms were tested at 1×10^8 organisms per ml, with the exception of *Staphylococcus aureus*, which was tested at 1×10^9 organisms per ml.

Streptococcus Groups B, C, D, F, G	<i>Neisseria subflava</i>
<i>Streptococcus oralis</i>	<i>Candida albicans</i>
<i>Streptococcus salivarius</i>	<i>Haemophilus influenzae</i>
<i>Streptococcus pneumoniae</i>	<i>Haemophilus parahaemolyticus</i>
<i>Streptococcus mutans</i>	<i>Proteus vulgaris</i>
<i>Streptococcus sanguis</i>	<i>Moraxella catarrhalis</i>
<i>Streptococcus mitis</i>	<i>Corynebacterium diphtheriae</i>
<i>Staphylococcus epidermidis</i>	<i>Klebsiella pneumoniae</i>
<i>Staphylococcus saprophyticus</i>	<i>Serratia marcescens</i>
<i>Staphylococcus aureus</i>	<i>Escherichia coli</i>
<i>Staphylococcus aureus</i> (Cowan's serotype 1)	<i>Arcanobacterium haemolyticum</i>
<i>Staphylococcus haemolyticus</i>	<i>Yersinia enterocolitica</i>
<i>Neisseria meningitidis</i>	<i>Fusobacterium necrophorum</i>
<i>Neisseria gonorrhoeae</i>	<i>Bordetella pertussis</i>
<i>Neisseria lactamica</i>	<i>Pseudomonas aeruginosa</i>
<i>Neisseria sicca</i>	<i>Moraxella lacunata</i>

ADVICE LINE

For further information, please contact your distributor, or call Inverness Medical Customer Service on:
 UK: 08705 134952
 International: +44 1234 835959
www.testpack.com

Key to symbols
Erläuterung der Symbole

Symbolforklaring
Leyenda de símbolos

Symbolien selitykset
Clé des symboles

Επεξήγηση συμβόλων
Legenda dei simboli

Betekenis van symbolen
Chave dos símbolos

Symbolförklaring
الرموز الرئيسية



CE Mark
CE-Zeichen
CE-mærke

Marca CE
CE-merkintä
Marque CE

Σήμανση CE
Marchio CE
CE-merk

Marcação CE
CE-märkning
علامة CE



Do Not Reuse
Nur für den einmaligen
Gebrauch
Kun til engangsbrug

No reutilizar
Älä käyttää uudelleen
Ne pas réutiliser

Μίας χρήσης
Non riutilizzare
Niet opnieuw gebruiken

Não reutilizar
Får ej återanvändas
لا تستخدمها مرة أخرى



For professional in vitro
diagnostic use only
Der Test ist ausschließlich
für professionelle In-Vitro-
Diagnose vorgesehen
Kun til professionel in
vitro-diagnostisk brug

Uso exclusivo para
diagnóstico in vitro
profesional
Ainoastaan ammattimaiseen
in vitro -diagnoosikäyttöön
Pour utilisation
diagnostique in vitro
professionnelle uniquement

Μόνο για επαγγελματική
in vitro διαγνωστική χρήση
Unicamente per uso diagnostico
professionale in vitro
Alleen voor professioneel
gebruik bij in vitro
diagnostiek

Apenas para diagnostico
profissional in vitro
Endast för professionellt
in vitro-diagnostiskt bruk
للاستخدام التشخيصي
من قبل المتخصصين فقط



Lot number
Chargennummer
Produktionsserienummer (Lot)

Número de lote
Eränumero
Numéro de lot

Αριθμός παρτίδας
Numero di lotto
Lotnummer

Número de lote
Parti nr.
رقم التشغيل



Manufactured by
Hergestellt von
Fremstillet af

Fabricado por
Valmistanut
Fabriqué par

Παρασκευάζεται
από την
Prodotto da

Geproduceerd door
Fabricado por
Tillverkad av
الشركة المصنعة



Catalogue Number
Katalognummer
Katalognummer

Número de catálogo
Luettelonumero
Número de catalogo

Αριθμός καταλόγου
Numero di catalogo
Catalogusnummer

Número de catálogo
Katalognummer
رقم النشرة



Store at 2-30°C
Lagerung bei
2° bis 30°C
Opbevares ved 2-30°C

Almacenar a 2-30°C
Säilytettävä 2-30°C
Conservar entre
2 et 30 °C

Φυλάσσεται στους
2-30°C
Conservare a 2 - 30 °C
Opstaan bij 2-30°C

Conservar a 2°C-30°C
Förvaras vid 2-30°C
يحفظ عند
30°C 2-



Use By/Expiry Date
Haltbarkeits-/
Ablaufdatum
Anvendes for/Udløbsdato
Utilizar antes de/
Fecha de caducidad

Käyt. ennen/
Viim. käyttö pvm
Utiliser avant/
date de péremption
Χρήση μέχρι/
Ημερομηνία λήξης

Utilizzare entro/
Data di scadenza
Te gebruiken voor/Uiterste
houdbaarheidsdatum
Usar até/
Prazo de Validade

Utgångsdatum
يستعمل قبل
انتهاء الصلاحية



Contains sufficient
for <n> tests
Inhalt ausreichend
für <n> Tests
Indeholder materiale
til <n> test

Contiene lo necesario
para <n> ensayos
Sisältää tarvittavat välineet
<n> määrään testejä
Quantité suffisante
pour <n> tests

To περιεχόμενο επαρκεί
για <n> εξετάσεις
Contenuto sufficiente
per <n> test
Bevat voldoende
voor <n> tests

Contém o suficiente
para <n> testes
Inhåller räckér
till <n> test
يحتوي على كافة المتطلبات
اللازمة لإجراء اختبارات <n>



Consult instructions
for use
Siehe Gebrauchs-anweisung
Se bruger-vejledningen
Consultar el prospecto

Ks. käyttöohjeet
Lire les instructions
d'utilisation
Συμβουλευτείτε
τις οδηγίες χρήσης

Consultare le istruzioni
per l'uso
Raadpleeg instructies
voor gebruik
See bruks-anvisningen

Läs instruktionerna
för användning
ارجع إلى إرشادات
الاستعمال



Reagent 1
Reagenz 1

Reagens 1
Reactivo 1

Reagentti 1
Réactif 1

Αντιδραστήριο 1
Reagente 1

Reagens 1
Reagente 1
عامل مساعد 1



Reagent 2
Reagenz 2

Reagens 2
Reactivo 2

Reagentti 2
Réactif 2

Αντιδραστήριο 2
Reagente 2

Reagens 2
Reagente 2
عامل مساعد 2



Reagent 3
Reagenz 3

Reagens 3
Reactivo 3

Reagentti 3
Réactif 3

Αντιδραστήριο 3
Reagente 3

Reagens 3
Reagente 3
عامل مساعد 3



Sterilised using irradiation
Sterilisiert mittels Bestrahlung
Steriliseret med bestråling
Esterilizado por irradiación

Steriloitu säteilyttämällä
Stérilisé par rayonnement
Αποστείρωση με χρήση ακτινοβολήσης
Sterilizzato mediante irradiazione

Gesteriliseerd door straling
Esterilizado por irradiación
Steriliserad genom bestrålning
تمت عملية التعقيم بواسطة الإشعاع



Polyester
Polyester

Polyester
Poliéster

Polyester
Polyester

ΠΟΛΥΕΣΤΕΡΑΣ
Poliestere

Polyester
Poliéster

Polyester
بوليستر

See package for a full explanation of symbols used.
Sterile Polyester(Dacron-tipped) swabs manufactured for Unipath Ltd
Unipath, Inverness Medical and the Inverness Medical logo are trademarks.
Eine ausführliche Beschreibung der Symbole finden Sie auf der Packung.
Eine ausführliche Beschreibung der Symbole finden Sie auf der Packung.
Sterile Polyesterstüpfel (mit Dacron-Spitze) hergestellt für Unipath Ltd.
Unipath, Inverness Medical und das Inverness Medical-Logo sind Marken.
De anvendte symboler er beskrevet mere detaljeret på pakken.
Sterile podopinde af polyester (med Dacron-spids) fremstillet for Unipath Ltd
Unipath, Inverness Medical og Inverness Medical-logoen er varemærker.
El envase tiene una explicación completa de los símbolos utilizados.
Bastoncillos estériles de poliéster (con la punta de dacrón) fabricados por Unipath Ltd
Unipath, Inverness Medical y el logotipo de Inverness Medical son marcas comerciales.

Katso käytettävien symbolien täydelliset selitykset pakkauksesta.
Steriilit polyesteripuoikot (Dacron-kärkisest), jotka on valmistettu Unipath Ltd:lle.
Unipath, Inverness Medical ja Inverness Medicalin logot ovat tavaramerkkejä.
Voir l'emballage pour une explication complète des symboles utilisés.
Voir l'emballage pour une explication complète des symboles utilisés.
Écouvillons stériles en polyester (embout Dacron) fabriqués pour Unipath Ltd
Unipath, Inverness Medical et le logo Inverness Medical sont des marques de commerce.
Δείτε στη συσκευασία για την πλήρη επεξήγηση των συμβόλων που χρησιμοποιούνται.
Στειλικοί από στείρο πολυεστέρα (με απόληξη από ντάκρον)
κατασκευασμένοι για τη Unipath Ltd
Vedere la confezione per una spiegazione dettagliata dei simboli utilizzati.
Tamponi sterili in poliestere con punta in Dacron prodotti per Unipath Ltd.
Unipath, Inverness Medical e il logo Inverness Medical sono marchi di fabbrica.

Raadpleeg de verpakking voor een uitgebreide uitleg van de gebruikte symbolen.
Steriele polyesterstaafjes (met Dacron-tip) zijn gefabriceerd voor Unipath Ltd
Unipath, Inverness Medical en het Inverness Medical-logo zijn handelsmerken.
Consulte a embalagem para uma explicação completa dos símbolos utilizados.
Zaragatoas de poliéster esterilizadas (com ponta em dacron) fabricadas para a Unipath Ltd
Unipath, Inverness Medical e o logótipo Inverness Medical são marcas comerciais.
En fullständig symbolförklaring finns i förpackningen.
Sterila provstickor av polyester (med Dacron-spetsar), tillverkade för Unipath Ltd
Unipath, Inverness Medical och Inverness Medical-logotypen är varumärken.
انظر العبوة للحصول على شرح وافٍ للرموز المستخدمة بوليستر ماسحات طبية
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Παραπομπές BIBLIOGRAFIA

REFERENTIES REFERÊNCIAS

REFERENSER مراجع

1. Efstratiou A. (2000). Journal. Antimicrobial Chemotherapy. 45: Topic T1: 3-12.
2. Kaufhold A. and Ferrieri P. (1993). Infectious Disease Clinics of North America.7(2): 235-256.
3. Facklam R.R., Washington J.A. II (1991). In: Balows A., Hausler WJ Jr, Herrmann K.L. et al (eds): Manual of Clinical Microbiology, ed 5. Washington, DC, ASM, p238.
4. Lancefield, R.C. (1933). Journal of Experimental Medical Medicine. 57: 571-593.
5. Ross, P.W. (1971). The Practitioner. 207: 791-796.
6. Almadori G., Bastianini L., Bistoni F., Paludetti G., Rosignoli M. (1988). International Journal of Paediatric Otorhinolaryngology. 15: 157-162.
7. Lauer, B.A., L.B. Rellar and S. Mirrett (1983). Journal Clinical Microbiology 17: 338-340.
8. Woods W.A., Carter C.T. & Schlager T.A. (1999). Pediatric Emergency Care. 15(5): 338-340.
9. Schwartz B., Elliott J.A., Butler J.C., Simon P.A. Jameson B.L., Welch G.E. & Facklam R.R. (1992). Clinical Infectious Diseases:15(2): 277-84.

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