

Intended use

A dipslide culture method for diagnosing urinary tract infections by demonstrating microbes in urine.

Principles of the procedure

The Uricult Trio dipslide system is based on three agar media. One side of the plastic slide is covered with green CLED medium and the other with both reddish-brown MacConkey medium and a colourless E. coli medium. The CLED medium is intended for determining the total bacterial count. The MacConkey medium is intended for detecting gram-negative organisms. This medium contains bile salts that prevent the growth of gram-positive organisms other than enterococci which may grow as minute colonies. The E. coli medium is intended especially for detecting gram-negative, β-glucuronidase-producing organisms which grow as colonies in various shades of brown or grey on this medium. *Escherichia coli* is the most common β-glucuronidase-producing organism encountered in urinary tract infections. Bile salts contained in the E. coli medium prevent the growth of gram-positive organisms on it. Certain yeasts do grow on the E. coli medium, however.

Reagents**Contents**

| Uricult Trio | Cat. No. 68197 |
|----------------------|----------------|
| Dipslides | 10 |
| Patient labels | 10 |
| Instructions for use | 1 |

Storage

Store Uricult at 7...25°C protected from draught, temperature fluctuations and light sources. Avoid storage near heat-generating appliances. **Do not allow to freeze.** The expiry date is marked on the box.

Warnings and precautions

Uricult Trio is for *in vitro* diagnostic use only. Do not use the product beyond the expiry date marked on the box. Wear protective clothing and disposable gloves while handling samples or tests, and wash hands thoroughly afterwards. Do not use the Uricult Trio if you detect discoloration or dehydration of the agar, separation of the growth media from the plastic slide or evidence of bacterial or fungal growth. Because any colonies growing on Uricult Trio are actual or potential pathogens, do not touch the growth.

Sample collection and preparation

Ideally, urine for bacterial culture should remain in the bladder for four hours prior to sampling. Urine samples may be obtained by voiding (clean-voided midstream urine), catheterisation or suprapubic aspiration. The sample should be inoculated onto the Uricult Trio slide immediately after collection. The slide should then at once be returned into its protective tube and the cap closed tightly.

If the urine sample needs to be stored prior to inoculation, it should be maintained refrigerated at 2...8°C no longer than 24 hours.

Uricult Trio test results may be affected if the patient has received anti-infective treatment. The test should not be performed until 48 hours after the final dose of medication.

Procedure

- Unscrew the slide from the tube without touching the agar surfaces.
- Holding Uricult Trio by the cap, dip the slide into freshly voided mid-stream urine so that the agar surfaces are totally immersed. If the volume of urine is too small for this, the agar surfaces can be wetted by pouring urine on them, followed by tilting to ensure complete wetting.
- Allow excess urine to drain from the slide.
- Blot the last drops on absorbent paper.
- Screw the slide tightly back into the tube.
- Fill in the patient label and attach it to the tube.
- Place the tube upright in an incubator (36±2°C) for 16–24 hours. The tube may also be sent to a laboratory for incubation.
- To obtain a colony count (CFU/ml), remove the slide from the tube and compare the colony density with the model chart provided in the kit.

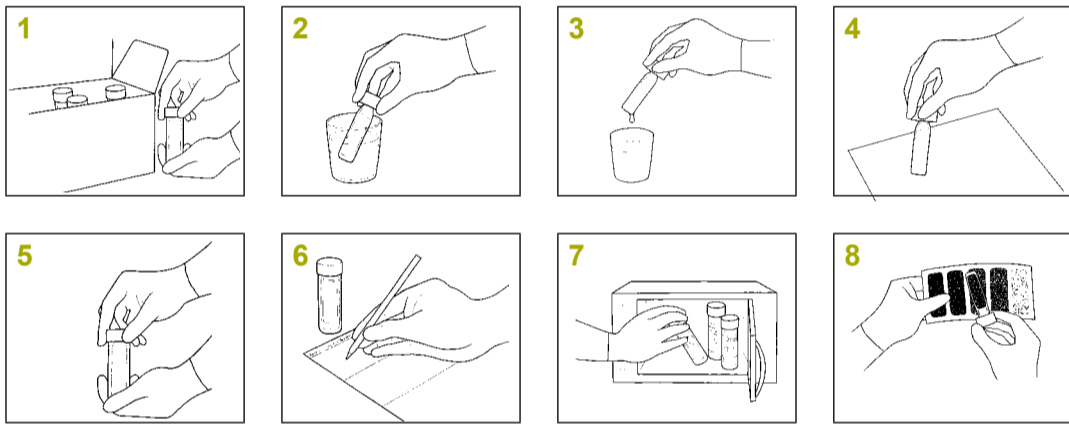
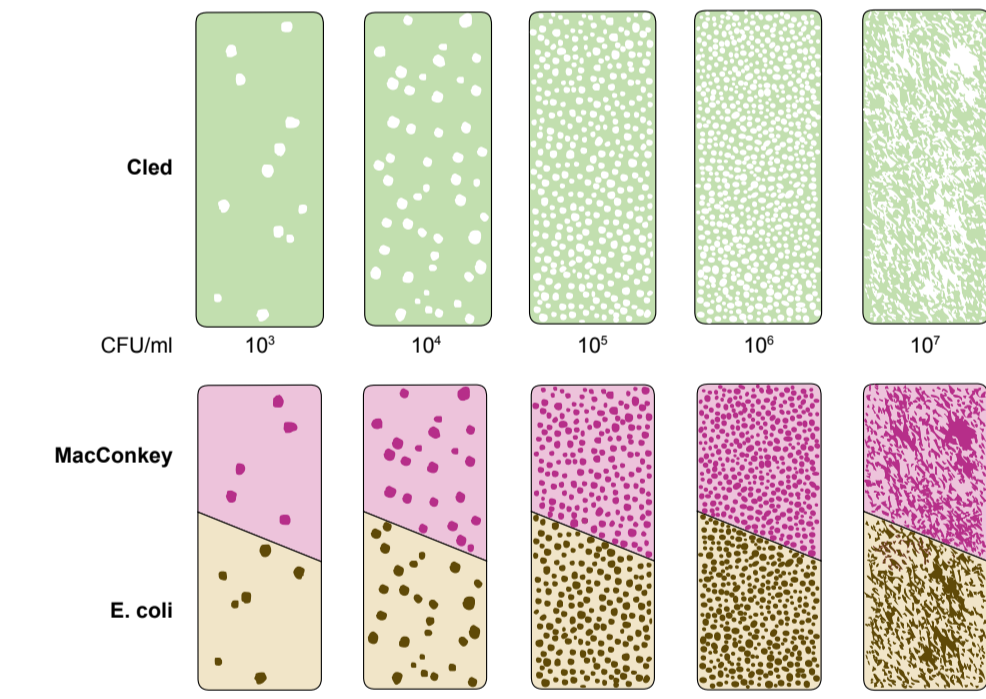
Note:

- Negative cultures and complicated or catheter-associated UTI samples are recommended to always be incubated for an additional 24 hours to ensure that slow-growing bacteria are detected.
- The inoculated slide may be incubated immediately or stored or transported to a laboratory for incubation and interpretation. Storage or transportation should not exceed 48 hours at 7...25°C, after which Uricult Trio should be incubated at 36±2°C for 16–24 hours. If the slide has been stored or transported for up to 48 hours, only the presence of growth and the colony count should be recorded from it; the colour reaction may be atypical.
- The inoculated slide may be incubated at room temperature for 1–3 days, after which positive cultures may be sent to a specialised laboratory for further investigation⁵. Negative cultures may be incubated for additional 24 hours to detect slow-growing bacteria⁵.

Quality control

Quality control tests are performed on each lot of Uricult Trio dipslides at the time of manufacture. Should the user wish to perform his own quality control, the following procedure is recommended:

- Prepare a 10⁵–10⁸ bacteria/ml suspension of each of the following bacteria in sterile saline:
 - Staphylococcus aureus* ATCC 25923
 - Escherichia coli* ATCC 25922
 - Proteus mirabilis* ATCC 12453

**Model Chart • Tableau de référence • Standardbildkarte • Tablas de referencia • Tabela de Referência • Tavola di riferimento • Πρότυπος πίνακας αναφοράς • Modelová tabulka • Referenčna tabela • Modelkort • Avlesningsmal • Tolkningsmall • Mallitaulu****Typical formulation • Formules • Typische Formulierung • Fórmula típica • Fórmula típica • Formulazione típica • Τυπική Σύσταση • Typické složení • Sestava gojišč • Agar indhold • Agar sammensetning • Sammansättning • Koostumus**

| CLED medium | MacConkey medium | E. coli medium |
|--------------------------|-----------------------|----------------------------|
| Peptone 10.0 g/l | Peptone 20.0 g/l | Peptone 12.0 g/l |
| Meat extract 3.0 g/l | Lactose 10.0 g/l | MgSO ₄ 0.1 g/l |
| Lactose 10.0 g/l | Neutral red 0.075 g/l | MnCl ₂ 0.01 g/l |
| L-Cystine 0.13 g/l | Bile salts 0.8 g/l | Fe(III) citrate 0.4 g/l |
| Bromthymol blue 0.03 g/l | | Bile salt mixture 2.4 g/l |
| | | β-D glucuronidase 0.03 g/l |

Literature • Bibliographie • Literatur • Bibliografia • Referências Bibliográficas • Bibliografia • Βιβλιογραφία • Literatura • Referenser • Litteratur • Kirjallisuus

- McAllister TA, Arneil GC, Barr W, Kay P: Assessment of plain dipslide quantitation of bacteriuria. Nephron 11: 111–122, 1973.
- Kass EH: Bacteriuria and the diagnosis of infections of the urinary tract. Archives of Internal Medicine 100: 709–714, 1957.
- Mackey JP, Sandys GH: Laboratory diagnosis of infections of the urinary tract in general practice by means of a dip-inoculum transport medium. British Medical Journal 2: 1286–1288, 1965.
- NCCLS Publication M22-A: Quality Assurance Standards for Commercially Prepared Microbiological Culture Media; Approved standard. Volume 10: 14, 1990.
- Ekman et al.: Streptocult- ja Uricult-työvälineen käyttö päivystysaikana. Aesculapius 11–12, 1985.
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Explanation of symbols • Explication des symboles • Zeichenerklärung • Explicación de los símbolos • Explicação de símbolos • Spiegazione dei simboli • Επεξήγηση των συμβόλων • Vysvětlivky použitých symbolů • Pojasnila simbolov • Symbolforklaring • Förklaring på symboler • Förklaring av symboler • Symbolien selitykset

| IVD | REF | LOT | ⚡ | ⏰ |
|---|---|---|--|--|
| <i>In vitro</i> diagnostic medical device Dispositif médical de diagnostic <i>in vitro</i> <i>In vitro</i> -Diagnostikum Producto sanitario para diagnóstico <i>in vitro</i> Dispositivo médico para diagnóstico <i>in vitro</i> Προϊόντα ιατρικού-διαγνωστικού <i>in vitro</i> ιατροτεχνολογικό βοήθημα που χρησιμοποιείται για διάγνωση <i>in vitro</i> Diagnostický zdravotnícký prostriedek <i>in vitro</i> Diagnostická zdravotnícká pomôcka <i>in vitro</i> Diagnostisk udstyr til <i>in vitro</i> -diagnostik Medicinsk utstyr for <i>in vitro</i> -diagnostik Medicinteknisk produkt avsedd för <i>in vitro</i> -diagnostik <i>In vitro</i> -diagnostilikkään tarkoitettu laaikinnallinen laite | Catalogue number Référéncie Bestell Nr. Número de catálogo Número de catalogo (n°) Codice Αριθμός καταλόγου Kataloška številka Kataloška številka Bestellingsnummer Bestellingsnummer Artikelnummer Tuotenummer | Batch code Numéro de lot Lot. Nr. Número de lote Número de lote Numero di lotto Αριθμός παρτίδας Číslo sarže Serjiska številka Batchcode Lotnummer Batch nr. Erakoodi | Temperature limitation Limites de température Temperaturbegrenzung Limitación de temperatura Limites de temperatura Limiti di temperatura Περιορισμοί θερμοκρασίας Τεπιτόμι ομεζνιέ Templotné rozmezí Temperaturbegrensning Temperaturbegrensning Temperaturbegrensning Lämpötilarajat | Use by a utiliser jusqu'a Verwendbar bis Fecha de caducidad Utilizar até Utilizzare entro/Scadenza Χρησιμοποιήστε έως Použitelné do Uporabno do Utdödsdato Brukes innen Används före Kaytettävä ennen |
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| Manufacturer Fabricant Hersteller Fabricante Produttore Προϊοντάρας Κατασκευάζεται από Výrobce Proizvajalec Fabrikant Producent Tiliverkare Valmistaja | Consult instructions for use Consult la notice d'utilisation Gebrauchsanweisung beachten Consultense las instrucciones de uso Consultar as instruções de utilização Consultare le istruzioni per l'uso Συμβουλευτείτε τις οδηγίες χρήσης Viz návod k použití Sledi navodilu za uporabo Se bruksanvisningen Se bruksanvisningen Läs bruksanvisningen Katso käyttöohjeita | Sufficient for Ausreichend für Válido para Suficiente para Suficiente per Επαρκές για Dostacuję pro Zadovoljivo za Tilstrækkelig til Tilstrækkelig for Räcker till Lukumäärä | Protect from draught and temperature fluctuations Conserver à l'abri des courants d'air et des fluctuations de température Vor Zug und Temperaturschwankungen geschützt lagern Proteger de las corrientes de aire y cambios de temperatura Proteger das correntes de ar e variações de temperatura Proteggere da corrente d'aria e variazioni di temperatura Χρησιμοποιήστε από ξηρασία και μεγάλες μεταβολές θερμοκρασίας Chrãňte, pŕed vvsušením a kolísáním teploty Zavarujte pred trepkom in temperaturnimi nihanj Beskyttes mod trekk og temperatursvingninger Beskyttes mod trekk og temperatursvingninger Undvik drag och temperaturvariationer Suojattava vedolta ja lämpötilan vaihteluilta | |

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