

Kacey Diagnostics C&S Products and Accessories

Product Description	Order Number	Unit Measure	MSRP
MutiChrome 10 pack	20203	10 Pak	\$130.00
MutiChrome Mastitis 10 pack	20208	10 Pak	\$110.00
Dermatophyte Plates 10 pack	20210	10 Pak	\$80.00
Kacey Mini Incubator (6 samples)	20211	1 Ea	\$695.00
Kacey Maxi Incubator (12 samples) Special Order	20212	1 Ea	CALL
Culture Swabs 100% Rayon Sterile Individual	20216	100 Pak	\$40.00
Culture Loops 10uL Sterile Individual	20217	100 Pak	\$40.00
Gram Negative Sensi-Ring	20221	10 Pak	\$100.00
Gram Positive Sensi-Ring	20222	10 Pak	\$110.00
Ear Sensi-Ring	20223	10 Pak	\$130.00
UTI Sensi-Ring	20224	10 Pak	\$130.00
Skin & Wound Sensi-Ring	20226	10 Pak	\$120.00
Kacey Maxi Muller Hinton Plate 100mm	20234	10 Pak	\$85.00
Working Solution Tube (0.85%)	20235	25/Box	\$60.00
Quick Reference Guide	20236	50/Box	\$5.00
Quick Reference Overlay Plastic Reader	20237	1 Ea	\$5.00
Quick Reference Inhibition Chart	20238	1 Ea	No Chg
Patient Lab Report Form (2 copies)	20240	25 Pak	\$25.00
4 Test Starter C&S Kit	20241	1 Kit	\$125.00

FOUR TEST STARTER KIT CONSISTS OF THE FOLLOWING ITEMS IN THE KIT:

- Contents
- 4 Ea. Multichrome Bi-plates
 - 4 Ea. Kacey Maxi-Muller Hinton Plates (TRUE-100mm)
 - 5 Ea. Sterile Rayon Swabs
 - 5 Ea. Sterile Loops (10 uL)
 - 5 EA. WST Tubes (Working Solution Tubes)
 - 1 EA. Standard Turbidity Tube
 - 1 Ea. Inhibition Overlay Reader
 - 1 Ea. Quick Reference Chart
 - 1 Ea. Instruction Manual Insert
 - 4 Ea. Patient Report Form –2 copy
 - 1 EA. Sensi Ring– EAR,UTI, GRAM (-) & GRAM (+)

Plus Bonus Wound / Skin Sensi Ring



V.O.L.T.™
Veterinary Office Laboratory
Tests



INSTRUCTION MANUAL

The advertisement features a blue background with several images. At the top right is a black Kacey Micro-Incubator* with a digital display and control buttons. Below it is a circular image of a Sensi-Ring™ Antibiotic Sensitivity Ring, showing a central well surrounded by antibiotic disks. To the left of the incubator is a grid of 12 small images showing various bacterial cultures on MultiChrome™ Bi-Plates, labeled with Gram Positive and Gram Negative results for different organisms like Strep agalactiae, Enterococcus, E. coli, Streptococcus, Listeria, Klebsiella, Pseudomonas, Staph aureus, and Pseudomonas. Below the grid are two larger images of MultiChrome™ Bi-Plates, one showing blue and yellow zones. At the bottom left is a yellow inoculation loop. The text 'MultiChrome™ Bi-Plates' and 'Sensi-Rings™ Antibiotic Sensitivity Rings' is prominently displayed in white and yellow. The Kacey Micro-Incubator* is also labeled in white text.

Thank you for purchasing the Kacey Diagnostics “C& S” Culture and Sensitivity products featuring the “MultiChrome”™ Bi-Plate for cultures with Chromogenic technology and the “Sensi-Rings”™, a self contained ring of antibiotic disks.

Cutting edge Bacteriology, that’s easy, accurate and in house, at a fraction of the cost of outside labs!

Culture

PRINCIPLE OF THE TEST

If there is the presence of bacteria MultiChrome™ Bi-Plate will interpret this in the following manner. The gram (+) side of the bi-plate will only be able to detect gram (+) bacteria. Conversely the Gram (-) side of the plate will allow only gram (-) bacteria to grow. MultiChrome will first confirm the presence of bacteria, followed by separation into their respective gram positive and negative families. Ultimately the bacteria will exhibit a distinctive color through the MultiChrome™ Bi-Plate process .

Example: (SEE LAMINATED COLOR CHART FOR ALL BACTERIA PICTURES)

Gram Positive Bacteria

Enterococcus= small, teal to turquoise colonies

Staph saprophyticus= opaque, pink colonies

Staph aureus= large, white center with milky white border

Gram Negative Bacteria

E. coli= med size, rose to magenta colonies with darker center

Pseudomonas a. =light yellow green, translucent with iridescence

Klebsiella p.=large, dark blue or indigo colonies

SPECIMEN COLLECTION AND INOCULATION OF BI-PLATE

1) Remove the plate from refrigerator & pre-heat in the incubator @37 degrees for 15-20 minutes prior to inoculating the bi-plate.

2) Due to the diversity of bacterial sites it is recommended that you review standard references for the proper collection of the sample at these different collection sites. If these are concerns regarding infectious material, the sample should be immediately tested or protected from excessive heat and cold. It is recommended that if there is a delay in testing, the specimen should be properly stored in a sealed container and placed in the refrigerator until inoculation of the Bi-Plate at a later time.

3) Use a Kacey Sterile inoculating loop (20uL) or a Sterile Rayon Swab and inoculate the sample onto both sides of the bi-plate by utilizing a zigzag streaking motion. **(See Quick Reference Card with illustrations that is included with each kit)**

3) Re-place clear lid and place bi-plate in the incubator upside down (inverted position) and incubate at 37°C +/- 2 degree C for no less than 24 hours . The plate should be examined after 24 hours, but no later than 48 hours after incubation for colony growth showing both typical morphology and the specific color unique to that organism. Yeast growth may require a longer period of time to grow and therefore may require a total of 48 hours for adequate incubation growth to occur. (If using Kacey Micro Incubator see instructions for complete details)

Note: Each Kacey C&S Kit comes with a "Quick Reference Card" with Test Procedural illustrations.

PRECAUTIONS

*For in vitro diagnostic Veterinary use only.

*Out of date MultiChrome should never be used to perform a test. Check each plate for the expiration date. Each clinic should abide by their local city, county, and state regulations for the proper disposal of biohazard animal waste. Use recognized safety protocols when handling and disposing of cultured MultiChrome media. You are culturing live active bacteria that may be zoonotic. Agents such as leptospirosis, e. coli, s. aureus, etc can be transmitted. Use of gloves, mask or safety shield is recommended. Wash after handling.

Sensitivity

PROCEDURE FOR INOCULATING

THE KACEY MAXI-MULLER HINTON PLATE & SENSITIVITY TESTING

The Kacey Sensi-Rings can only fit on the Kacey Maxi Muller Hinton Plates to assure proper antibiotic diffusion and virtually no cross over of antibiotic zones. All other Muller Hinton Plates with "standard Size Dimensions" will not work with the Kacey Sensi-Rings and will render erroneous results.

Kacey Sensi-ring™ (SR™) should be used according to an appropriate standardized susceptibility test method. Various alternative methodologies are available and Sensi-Ring™ is compatible with these.

- 1) Taking a Kacey Sterile Swab or 10uL Loop and carefully dab on to three (3) different places containing the bacteria on the MultiChrome Bi-plate.
- 2) Immediately place swab or loop containing bacteria into the Kacey Working Solution Tube ("WST")
- 3) Mix the swab with a gentle twirling motion while in the WST tube for approximately 3-5 seconds. Use a swab for inoculation of the Kacey Maxi Muller Hinton (MH) plate.
- 4) Using the now diluted swab streak the MH plate using wide broad strokes starting at the 9-3 o'clock position, followed by 11-5 o'clock and finally the 1-7 o'clock position and around the periphery of the Kacey Maxi-MH Plate **(See Quick Reference Card illustrations)** Discard the swab.

5) Remove the SR™ pouch from the refrigerator and allow to equilibrate to room temperature before opening. Remove SR™ from the foil pouch with tweezers at the inner tab & place it onto the Maxi MH Plate **"FACE DOWN"**, tapping down in non-disk areas. **(See Quick Reference Card illustrations)** Label the specimen to be incubated.

(6).Place the MH inoculated plate into a 37°C +/- 2 degree preheated incubator **upside down**, set timer inoculate and incubate for 24 hours. Remove & read inhibition zones with the Kacey Digital Reader caliper or Zone Inhibitor Reader enclosed.

Interpretation of results

Interpret measured zones of inhibition by reference to the chart published on the **"Quick Reference Card" OR ON THE Patient Lab Report Form** enclosed with each starter kit which classify test isolate as

Susceptible (S) Intermediate (I) - Resistant (R).

Good Quality Control laboratory procedures are determined by checking for signs of deterioration. If QC is required it must be performed with at least one organism to demonstrate a correct susceptibility pattern. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain from Kacey by calling 828.685.3569

Test Organisms	
<i>Escherichia coli</i> ATCCâ 25922	Correct susceptibility pattern*
<i>Pseudomonas aeruginosa</i> ATCCâ 27853	Correct susceptibility pattern*
<i>Staphylococcus aureus</i> ATCCâ 25923	Correct susceptibility pattern*

Limitations

Any deviation from the prescribed method may produce incorrect results. The latest published version of the method used should be consulted for complete details of test procedures and interpretive results.