Bacterial Density Count

The number of colonies grown on both agar surfaces is directly proportional to their concentration in the original urine specimen.
The bacterial concentration of the urine is determined by comparison of the colony density with the reference chart, provided in the instruction manual.
To estimate the bacterial concentration in the urine sample from the number of colonies grown on the Diaslide® we used the following correlation, determined for E.coli:

Bacterial concentration CFU/ml *	Number of visible colonies	
	CLED agar	MacConkey agar
10^3	5	4
10^4	17	15
10^5	110	100
10^6	~400	~400

**CFU/ml = Colony Forming Unit per 1ml of urine*

EXAMPLES OF RESULTS:

Concentration CFU/ml *	MacConkey agar	CLED agar
10^3		
10^4		
10^5		
10^6		

** CFU/ml = Colony forming Unit per 1ml of urine*

CORRECT STORAGE AND SHELF LIFE:
Diaslide® is stored at Room Temperature (15-25°C) in the original package.

DIASLIDE PACKAGING:

Diaslide	Cat. No.	Packaging
CLED/MacConkey	DS-101	10x10 units
Columbia CNA/MacConkey	DS-102	10x10 units
Chromogenic/MacConkey	DS-105	10x10 units

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01/09/10

DIASLIDE®
Urine Culture Device

DIASLIDE® - One step ahead for the detection of urinary tract infection

- **Isolation and identification of individual colonies in high concentrations of bacteriuria**
- **Bedside device ideal for immediate sampling to prevent contamination**
- **A unique design enables testing of minimal amount of urine sample**
- **See-through casing – easily viewed results**
- **Simple, clean and rapid protocol**
- **Unique transport and incubation package**

Diaslide® is a superior device designed to be one step ahead of all urine culturing devices.
Diaslide® combines the sensitivity and specificity of the traditional culture media and the convenience of a dipslide, which together with special unique features, makes it the leading device for urinary tract infections testing.

DESCRIPTION:

The Diaslide® device is a small transparent plastic casing with two hinged sections facing each other containing CLED and MacConkey agars. Diaslide®'s agars are elongated in order to ensure longitudinal streaking of urine by a smart "fork"-like sampler. When pulling the sampler through the casing devise each agar surface is streaked by the tip of one of the tips, as well as by the bent "joint" of the other tip. The tip inoculation yields a streaking dilution of several orders of magnitude, whereas inoculation by the "joint" yields a relatively uniform spreading of the sample.
Each Diaslide® is packed in a sterile, flexible transparent plastic packaging, which is tightly reclosed after sampling and during incubation, creating a closed system to eliminate potential contamination from the surroundings.

DIRECTIONS FOR USE:

1. Remove the Diaslide® from its package, being careful not to touch the sampler tips.

2. Dip the sampler tips into the urine, making sure that they are immersed up to the point where they meet.

3. Hold device vertically and use other hand to draw the sampler through the casing in a straight fashion.

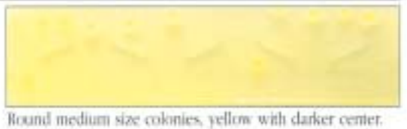
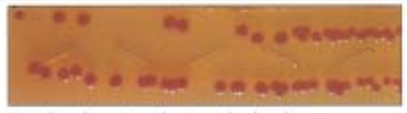
   Discard the sampler.

4. Return the casing into its packaging and incubate vertically at 37°C for 18-24 hours.

   Read and interpret results.

Bacterial Morphology Chart

Typical cultural response on Diaslide® media

	MacConkey agar	CLED agar
Escherichia coli (Gram-negative)	 Round medium size pink-red colonies.	 Round medium size colonies, yellow with darker center.
Proteus mirabilis (Gram-negative)	 Round medium size colonies, translucent to light red	 Round medium size colonies, translucent to gray-blue
Pseudomonas aeruginosa (Gram-negative)	 Large flat unevenly shaped colonies, colorless to red	 Large flat unevenly shaped colonies, colorless to green colored
Klebsiella pneumoniae (Gram-negative)	 Large colonies, mucoid in appearance, pink-red	 Large mucoid, colonies, often run together white-to yellow colored
Enterobacter aerogenes (Gram-negative)	 Round medium size colonies, red colored	 Round medium size colonies, white-yellow colored
Enterococcus faecalis (Gram-positive)	 No growth	 Small round white-yellow colored colonies
Staphylococcus aureus (Gram-positive)	 No growth	 Round small golden colonies
Candida	 No growth	 Very small white colonies