Plate Growth Distribution Training Guide

Urinary Tract Culture

Compiled by:
Wisconsin Clinical Laboratory Network
Laboratory Technical Advisory Group (LabTAG)
Urine culture (blood, MacConkey, CNA agar): >100,000 CFU/mL *Klebsiella pneumoniae*
Urine culture (blood, MacConkey, CNA agar):

>100,000 CFU/mL *Escherichia coli*

>100,000 CFU/mL *Enterococcus* spp.
Enterococcus spp.
Urine culture (blood agar):
>100,000 CFU/mL *Candida albicans*
50,000 CFU/mL *Candida glabrata*
C. glabrata

C. albicans
Urine culture (blood agar):
50,000 CFU/mL *Escherichia coli*
30,000 CFU/mL *Enterococcus spp.*
Indwelling catheter urine culture (MacConkey): Gram-negative bacilli (three types)
Urine culture (blood agar):
>100,000 CFU/mL *Enterococcus* spp.
30,000 CFU/mL contaminating flora
Urine culture (blood, MacConkey, CNA agar):

30,000 CFU/mL *E. coli*

>100,000 CFU/mL *Gardnerella vaginalis*

20,000 CFU/mL contaminants
Gardnerella contaminant E. coli
Urine culture (blood, CNA agar):
>100,000 CFU/mL *Enterobacteriaceae*
few Gram-positive flora
Gram-positive
Urine culture (blood, MacConkey, CNA agar): >100,000 CFU/mL *Serratia marcescens* few Gram-positive flora
S. marcescens breakthrough on CNA agar
Urine culture (blood, MacConkey, CNA agar): >100,000 CFU/mL *Escherichia coli* rare Gram-positive flora
Contaminated urine
(mixed Gram-positive and Gram-negative flora)
Contaminated urine (mixed Gram-positive flora)
Urine culture (blood agar): mixed Gram-positive flora
Urine culture (blood agar): mixed Gram-positive flora
Urine culture (blood agar): mixed Gram-positive flora