

## URINE CULTURE

A MODERN TECHNOLOGY FOR A  
TRADITIONAL CULTURE

**U**rinary Tract infections (UTIs) are considered to be one of the most common human bacterial infections second only to respiratory infections, and are also the most common nosocomial infections mostly linked to urethral catheters and invasive diagnostic procedures.

Women are especially prone to UTI, in fact 1 in 5 will develop it during her lifetime. The incidence of UTI increases with the presence of diabetes, malformations of the urinary tract system as well as with age.

Alifax presents the **Rapid Urine culture test** that provides results in three hours with **high sensitivity** and **specificity** compared to the reference method.

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This unique technology will allow clinicians to use the prompt data to choose the best strategy of treatment or avoid antimicrobial treatment in non-UTI cases.



### AUTOMATED



### RAPID

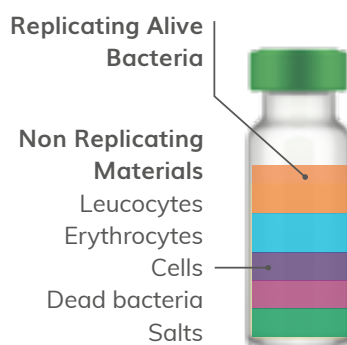
**3h**  
RESULTS



### STANDARDIZED



## Only live bacteria are detected



Using the patented technology based on light scattering the Alifax microbiology line instruments monitor the intense bacteria replication activity from the inoculum step into the specific culture broth providing real-time growth curves. Only live bacteria are detected while interference from non replicating substances such as erythrocytes, leucocytes, dead cells and salts present in the sample are eliminated during the initial zero reading.

### CUSTOMIZABLE PROTOCOLS WITH DIFFERENT INCUBATION TIMES AND CUT-OFFS

Incubation time (min)	Fast protocol (urine only) threshold (CFU/ml)	Standard protocol (URINE or HBL) threshold (CFU/ml)
70	1.000.000	20.000.000
80	500.000	12.000.000
110	100.000	2.000.000
120	DEFAULT 50.000	1.000.000
140	15.000	300.000
145	10.000	200.000
160	-	100.000
180	-	DEFAULT for URINE 30.000
190	-	15.000
235	-	1000
275		100
290		50
290-360		DEFAULT for HBL <50

- Automated reading
- Real time growth curves
- **Only 45 minutes** for strong positive samples
- Customizable thresholds and incubation time
- **Easy to interpret results:** negative or positive results reported in CFU/ml
- Specific eugonic broth for **optimized aerobic pathogen bacteria growth**
- **1 test 2 results:** Urine culture result + 0.5 McFarland turbidity value

### PERFORMANCE LITERATURE

Autor	Samples	Specificity	Sensitivity	PPV	NPV	Agreement
Soro 1995	1126	96,3	99,7	99,4	98,1	98,6
Russo 1997	642	93,24	98,76	98,76	99,11	98,28
Ricci 2008	755	98,5	97,5	97,09	98,78	98,01
Carpi 2013	1500	99,8	90,0	99,9	83,6	93,3
Freiman 2013	886	94,7	97,9	96,7	96,8	96.5%

URO-QUICK SCREENING KIT  
AUTOMATION KIT

Code SI 390.900  
Code SI 1201.900

CE IVD MARKED

Bibliography available at [www.alifax.com](http://www.alifax.com)

### ALIFAX S.r.l.

Via Petrarca, 2/1 - Polverara (PD) - Italy

(+39) 049 0992000 | [info@alifax.com](mailto:info@alifax.com) | [www.alifax.com](http://www.alifax.com)

Entered in Padova companies register at the n. 04337640280. Company stock € 10.000.000 entirely deposited.

Company with single partner and subjected to direction and coordination of Alifax Holding.