

# ENTEROSYSTEM 18R



**SISTEMA RAPIDO PER L'IDENTIFICAZIONE DELLE ENTEROBACTERIACEAE**  
**RAPID SYSTEM FOR ENTEROBACTERIACEAE IDENTIFICATION**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	+	+	+	-	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 642452  
**Salmonella spp**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	-	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 463400  
**Proteus mirabilis**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 063601  
**Proteus vulgaris**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 142453  
**Citrobacter freundii**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 344577  
**Klebsiella pneumoniae**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	+	+	+	+	+
+/	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 344777  
**Klebsiella oxytoca**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 700652  
**Escherichia coli**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	+/	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 554517  
**Enterobacter cloacae**

1-ONPG	2-LDC	3-ODC	4-ADC	5-PD	6-CIT
7-UR	8-H <sub>2</sub> S	9-MAL	10-VP	11-IND	12-GLU
13-MAN	14-INO	15-SOR	16-SAC	17-ARA	18-RAF

+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+

Numerical code: 700513  
**Serratia marcescens**



**LIOFILCHEM Bacteriology Products**

Via Scozia - Zona Ind.le - 64026 ROSETO D. A. (TE) ITALY - Phone +39 085 8930745 - Fax +39 085 8930330

Internet: [www.liofilchem.net](http://www.liofilchem.net) - E-mail: [liofilchem@liofilchem.net](mailto:liofilchem@liofilchem.net)



# Procedure

1



Prelevare con un'ansa monouso una colonia ben isolata da terreno selettivo.

*Pick up with a monovalent loop a well isolated colony from selective media.*

2



Sospendere la colonia in soluzione fisiologica e miscelare.

*Suspend the colony in physiological solution and mix.*

3



Trasferire con pipetta Pasteur 5 gocce (0,2 ml) della sospensione batterica in ciascun pozzetto del sistema.

*Transfer with Pasteur pipette five drops (0,2 ml) of the bacterial suspension in each well of the system.*

4



Coprire i pozzetti LDC (2), ODC (3), ADC (4), UR (7) e H<sub>2</sub>S (8) con 2 gocce di olio di vaselina sterile.

*Cover the wells LDC (2), ODC (3), ADC (4), UR (7) and H<sub>2</sub>S (8) with two drops of sterile vaseline oil.*

5



Coprire il sistema con l'apposito coperchio ed incubare a 37°C per 8-12-24 ore.

*Cover the system with the apposite lid and incubate at 37°C for 8-12-24 hours.*

6



Aggiungere i reagenti supplementari nei pozzetti VP (10) e IND (11), valutare le reazioni biochimiche ed annotare i risultati sul modulo raccolta dati.

*Add the supplementary reagents in the wells VP (10) and IND (11), check the biochemical reactions and record the results on the special form.*

7

TABELLA DELLE REAZIONI														
TEST	INDP	ODC	ADC	PH	UR	H <sub>2</sub> S	VP	IND	SDA	ORN	NO	SAC	ARA	RAF
Reazione Positiva	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Reazione Negativa	○	○	○	○	○	○	○	○	○	○	○	○	○	○

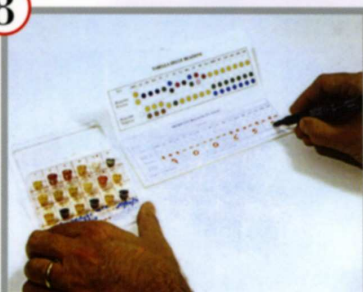
  

MODULO RACCOLTA DATI														
DATA		CAMPIONE												
TEST	INDP	ODC	ADC	PH	UR	H <sub>2</sub> S	VP	IND	SDA	ORN	NO	SAC	ARA	RAF
Coltura in Petri-dish	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Reazione	+++	+	-	-	-	-	+	+	+	+	+	+	+	+
Numero	7	0	0	6	5	2								
CHIESA NUMERO	700452													
IDENTIFICAZIONE	E. COLI													

Sommando i valori ottenuti in ciascun gruppo di reazioni si ottiene il codice numerico.

*Summing the values obtained in each reactions group a numerical code is obtained.*

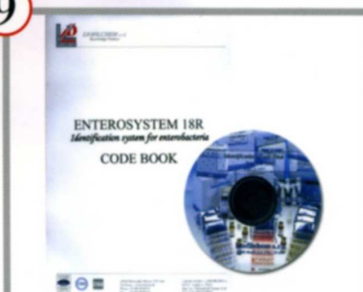
8



Il germe viene identificato mediante codifica numerica ottenuta dai viraggi cromatici dei vari tests biochimici.

*The germ is identified by numerical code deriving from the chromatic tonings of various biochemical tests.*

9



Servendosi del Code Book o del CD Identification Code Disk viene identificato il germe.

*Using the Code Book or CD Identification Code Disk is identified the germ.*