



CERTIFICATE OF PARTICIPATION

This certificate confirms that:
S.C.A. - Servizi Consulenze Ed Analisi

took part in:
LEAP MICRO Proficiency Test **MICRO45**
Coliforms in Water

and were allocated laboratory number **12** .

The performance of the laboratory is shown in the relevant report, which is available from the secure pages at www.fapas.com

FAPAS®, FEPAS®, GeMMA, LEAP™
The Food and Environment Research Agency
Sand Hutton
York YO41 1LZ

tel: +44 1904 462100
fax: +44 1904 462040
info@fapas.com
www.fapas.com

FAPAS®, FEPAS® and GeMMA are UKAS accredited, giving independent confirmation that we comply with the requirements of International Standard ISO/IEC Guide 43-1:1997, through assessment against ILAC G13:2000. Additionally, the Food and Environment Research Agency is an ISO 9001 certified organisation.

PRINTED COPIES OF THIS DOCUMENT ARE UNCONTROLLED

CERTIFIED DOCUMENT

The integrity of this report can only be confirmed by inspecting the validity of the digital signature embedded within the Adobe PDF file. **ALL** copies, either printed or electronic, should be verified by comparison with the Adobe PDF file that displays a valid FAPAS® digital signature.



LABORATORY NUMBER: [Available to participants from FAPAS SecureWeb](#)

LEAP® Scheme Proficiency Test MICRO45

Potable Water

April 2011

Report

Prepared and authorised on behalf of FAPAS by

A handwritten signature in blue ink, appearing to read 'Laura Prenton', is written over a faint, light blue grid background.

Laura Prenton

Table 1: Results and z-Scores for Enumeration of Total Coliforms and *Escherichia coli*

laboratory number	examination			
	total coliforms assigned value 4 cfu/100 mL		<i>Escherichia coli</i> assigned value 49 cfu/100 mL	
	result cfu/100 mL	z-score	result cfu/100 mL	z-score
001	6	0.5	56	0.6
003	5	0.2	73	2.1
004	17	3.9	52	0.3
005	13	2.6	21	-2.4
008	<1		40	-0.8
009	6	0.5	52	0.3
011	38	10.3	4	-3.9
012	6	0.5	27	-1.9
014	4	-0.1	57	0.7
015	4	-0.1	47	-0.2
016	3	-0.4	54	0.4
017	2	-0.7	38	-0.9
018	3	-0.4	0	-4.3
019	9	1.4	50	0.1
020	8	1.1	59	0.9
021	8	1.1	60	1.0
023	5	0.2	56	0.6
024	4	-0.1	44	-0.4
025	Not detected		93	3.8
026	4	-0.1	48	-0.1
027	2	-0.7	41	-0.7
028	1	-1.0	53	0.4
029	0	-1.3	20	-2.5
030	0	-1.3	40	-0.8
031	2	-0.7	58	0.8
032	2	-0.7	34	-1.3

z-scores outside $|z| > 2$ are shown in **bold**, see Section 5

Table 2: Results and z-Scores for Colony Count after 3 days at 22°C

laboratory number	examination	
	colony count assigned value 138 cfu/mL	
	result cfu/mL	z-score
002	169	2.1
003	138	0.0
004	138	0.0
005	130	-0.5
009	120	-1.2
012	143	0.4
014	129	-0.6
015	147	0.6
016	140	0.2
017	139	0.1
018	151	0.9
019	4.8E+3	315.1
020	130	-0.5
022	3200	207.0
023	136	-0.1
024	122	-1.0
025	170	2.2
026	129	-0.6
027	117	-1.4
028	144	0.4
029	0	-9.3
030	132	-0.4
031	131	-0.4
032	163	1.7
033	118	-1.3
034	135	-0.2
035	135	-0.2
036	148	0.7

z-scores outside $|z| > 2$ are shown in **bold**, see Section 5

Table 3: Results and z-Scores for Colony Count after 2 days at 37°C

laboratory number	examination	
	colony count assigned value 135 cfu/mL	
	result cfu/mL	z-score
002	190	3.0
003	121	-0.8
004	126	-0.5
005	112	-1.3
008		
009	119	-0.9
012	142	0.4
014	134	-0.1
015	154	1.0
016	142	0.4
017	127	-0.5
018	162	1.5
019	1.41E+3	70.8
020	130	-0.3
023	145	0.5
024	111	-1.4
025	170	1.9
026	129	-0.4
027	140	0.3
028	140	0.3
029	1	-7.5
030	122	-0.7
031	146	0.6
032	136	0.0
033	113	-1.2
034	122	-0.7
035	113	-1.2
036	126	-0.5

z-scores outside $|z| > 2$ are shown in **bold**, see Section 5

Table 4: Results and z-Scores for Enumeration of Enterococci

laboratory number	examination	
	enterococci	
	assigned value 46 cfu/100 mL	
	result cfu/100 mL	z-score
001		
003	40	-1.2
004	51	1.1
005	50	0.9
006	50	0.9
007	44	-0.4
008	44	-0.4
009	52	1.3
010	47	0.3
012	52	1.3
013	43	-0.6
014	49	0.7
015	42	-0.8
016	45	-0.2
017	50	0.9
018	49	0.7
019	44	-0.4
023	59	2.8
024	44	-0.4
025		
026	45	-0.2
027	45	-0.2
028	59	2.8
029	44	-0.4
030	40	-1.2
031	46	0.0
032	48	0.5

z-scores outside $|z| > 2$ are shown in **bold**, see Section 5