

LABORATORY ANALYSIS REPORT

DETERMINATION OF AMBIENT AIR VOLATILE ORGANIC COMPOUNDS IN DIFFUSION TUBES BY THERMAL DESORPTION / GAS CHROMATOGRAPHY

Report number N05740R
Booking in reference no T1009
Despatch note no 73023
Customer SIA Estonian, Latvian & Lithuanian
Vilandes Iela 3
Dz. 6
Riga
Date samples received 06/08/2019

Location	Tube no	Date exposed*	Date finished*	Exposure hours*	Benzene	Toluene	BTEX Ethyl Benzene ng on Tube	mp-Xylene	o-Xylene
28	003145	11/07/2019	31/07/2019	479.33	<5.00	7.14	<5.00	<5.00	<5.00
30	003160	11/07/2019	31/07/2019	477.83	11.60	22.98	<5.00	8.80	<5.00
8	001500	11/07/2019	31/07/2019	477.67	7.05	20.68	5.24	16.27	6.69
D	001886	11/07/2019	31/07/2019	476.75	<5.00	16.15	6.99	23.10	9.47
C	003250	11/07/2019	31/07/2019	476.67	<5.00	11.27	<5.00	7.92	<5.00
E	001204	11/07/2019	31/07/2019	476.50	<5.00	16.94	<5.00	10.42	<5.00
7	003546	11/07/2019	31/07/2019	476.67	6.67	13.81	<5.00	8.44	<5.00
J	000022	11/07/2019	31/07/2019	476.67	5.60	22.78	5.24	15.16	5.99
L	000016	12/07/2019	01/08/2019	478.50	<5.00	<5.00	<5.00	<5.00	<5.00
K	003030	12/07/2019	01/08/2019	478.33	<5.00	8.26	<5.00	6.41	<5.00
A	GRA10005	12/07/2019	01/08/2019	477.42	<5.00	14.68	<5.00	10.98	<5.00
24	003536	12/07/2019	01/08/2019	477.42	<5.00	18.94	<5.00	12.14	<5.00
B	003140	12/07/2019	01/08/2019	477.25	<5.00	18.83	<5.00	12.02	<5.00
H	003219	12/07/2019	01/08/2019	477.17	<5.00	14.44	<5.00	8.61	<5.00
9	003668	12/07/2019	01/08/2019	476.75	<5.00	18.58	<5.00	12.39	5.15
14	003636	12/07/2019	01/08/2019	473.75	5.40	32.61	6.80	20.59	8.10
15	000009	12/07/2019	01/08/2019	473.67	<5.00	14.98	<5.00	9.95	<5.00
13	GRA02376	12/07/2019	01/08/2019	473.58	<5.00	10.15	<5.00	5.96	<5.00
G	001942	12/07/2019	01/08/2019	473.50	6.39	21.56	<5.00	11.28	<5.00
F	GRA02442	12/07/2019	01/08/2019	473.42	<5.00	13.63	<5.00	7.62	<5.00
O (control)	GRA09396				1.74	1.32	0.46	0.55	0.21
Laboratory Blank	GRA08992				0.78	0.15	0.15	0.18	0.07

(RESULTS ARE BLANK CORRECTED)

Tube Type Carbograph 1TD

COMMENTS:

Results below 5.0ng on tube are below the reporting limit.

Overall M.U.	±16.6%	Reporting Limit	5ng on tube
Analyst name	Gavin Aikman	Report checked by	C. Fraser
Date of analysis	03/09/2019	Date of report	06/09/2019

The analysis has been carried out in accordance with in-house method GLM13

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

Form LQF32b BTEX Issue 9 – August 2019

Report Number N05740R

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REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of these results
Signed.....*L. Gates*.....
L. Gates, Laboratory Manager

(A division of Gradko International Ltd.)

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tel.: 01962 860331 fax: 01962 841339 e-mail:diffusion@gradko.co.uk

LABORATORY ANALYSIS REPORT

DETERMINATION OF AMBIENT AIR VOLATILE ORGANIC COMPOUNDS IN DIFFUSION TUBES BY THERMAL DESORPTION / GAS CHROMATOGRAPHY

Report number N05740R1
Booking in reference no T1009
Despatch note no 73023
Customer SIA Estonian, Latvian & Lithuanian
Vilandes Iela 3
Dz. 6
Riga
Date samples received 06/08/2019

Location	Tube no	Date exposed*	Date finished*	Exposure hours*	Benzene	Toluene	BTEX	mp-Xylene	o-Xylene
							Ethyl Benzene		
Values Reported in Parts per Billion (p.p.b.) in Air *									
28	003145	11/07/2019	31/07/2019	479.33	<0.09	0.12	<0.09	<0.09	<0.09
30	003160	11/07/2019	31/07/2019	477.83	0.22	0.39	<0.09	0.16	<0.09
8	001500	11/07/2019	31/07/2019	477.67	0.13	0.35	0.09	0.29	0.12
D	001886	11/07/2019	31/07/2019	476.75	<0.09	0.27	0.13	0.42	0.17
C	003250	11/07/2019	31/07/2019	476.67	<0.09	0.19	<0.09	0.14	<0.09
E	001204	11/07/2019	31/07/2019	476.50	<0.09	0.29	<0.09	0.19	<0.09
7	003546	11/07/2019	31/07/2019	476.67	0.13	0.23	<0.09	0.15	<0.09
J	000022	11/07/2019	31/07/2019	476.67	0.11	0.38	0.09	0.27	0.11
L	000016	12/07/2019	01/08/2019	478.50	<0.09	<0.08	<0.09	<0.09	<0.09
K	003030	12/07/2019	01/08/2019	478.33	<0.09	0.14	<0.09	0.12	<0.09
A	GRA10005	12/07/2019	01/08/2019	477.42	<0.09	0.25	<0.09	0.20	<0.09
24	003536	12/07/2019	01/08/2019	477.42	<0.09	0.32	<0.09	0.22	<0.09
B	003140	12/07/2019	01/08/2019	477.25	<0.09	0.32	<0.09	0.22	<0.09
H	003219	12/07/2019	01/08/2019	477.17	<0.09	0.24	<0.09	0.16	<0.09
9	003668	12/07/2019	01/08/2019	476.75	<0.09	0.31	<0.09	0.22	0.09
14	003636	12/07/2019	01/08/2019	473.75	0.10	0.55	0.12	0.37	0.15
15	000009	12/07/2019	01/08/2019	473.67	<0.10	0.25	<0.09	0.18	<0.09
13	GRA02376	12/07/2019	01/08/2019	473.58	<0.10	0.17	<0.09	0.11	<0.09
G	001942	12/07/2019	01/08/2019	473.50	0.12	0.37	<0.09	0.20	<0.09
F	GRA02442	12/07/2019	01/08/2019	473.42	<0.10	0.23	<0.09	0.14	<0.09
O (control)	GRA09396			479.33	0.03	0.02	0.01	0.01	0.004
Laboratory Blank	GRA08992			479.33	0.01	0.003	0.003	0.003	0.001

(RESULTS ARE BLANK CORRECTED)

Tube Type Carbograph 1TD

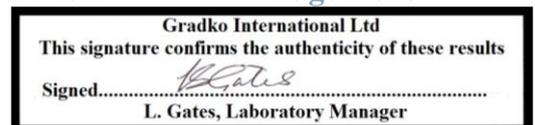
COMMENTS:

Results indicated with < are below the reporting limit calculated for time exposed.

Weeks exposed	3	Uptake rates (ng.ppm ⁻¹ min ⁻¹)	1.85	2.07	1.94	1.94	1.94
Overall M.U.	±16.6%	Reporting Limit	5ng on tube				
Analyst name	Gavin Aikman	Report checked by	C. Fraser				
Date of analysis	03/09/2019	Date of report	06/09/2019				

The analysis has been carried out in accordance with in-house method GLM13

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LABORATORY ANALYSIS REPORT

DETERMINATION OF AMBIENT AIR VOLATILE ORGANIC COMPOUNDS IN DIFFUSION TUBES BY THERMAL DESORPTION / GAS CHROMATOGRAPHY

Report number N05740R2
Booking in reference no T1009
Despatch note no 73023
Customer SIA Estonian, Latvian & Lithuanian
Vilandes Iela 3
Dz. 6
Riga
Date samples received 06/08/2019

Location	Tube no	Date exposed*	Date finished*	Exposure hours*	Benzene	Toluene	BTEX		
							Ethyl Benzene	mp-Xylene	o-Xylene
Values Reported in $\mu\text{g m}^{-3}$ in Air *									
28	003145	11/07/2019	31/07/2019	479.33	<0.29	0.44	<0.38	<0.38	<0.38
30	003160	11/07/2019	31/07/2019	477.83	0.68	1.42	<0.38	0.67	<0.38
8	001500	11/07/2019	31/07/2019	477.67	0.41	1.28	0.40	1.24	0.51
D	001886	11/07/2019	31/07/2019	476.75	<0.29	1.00	0.53	1.76	0.72
C	003250	11/07/2019	31/07/2019	476.67	<0.29	0.70	<0.38	0.61	<0.38
E	001204	11/07/2019	31/07/2019	476.50	<0.29	1.05	<0.38	0.80	<0.38
7	003546	11/07/2019	31/07/2019	476.67	0.39	0.86	<0.38	0.64	<0.38
J	000022	11/07/2019	31/07/2019	476.67	0.33	1.42	0.40	1.16	0.46
L	000016	12/07/2019	01/08/2019	478.50	<0.29	<0.31	<0.38	<0.38	<0.38
K	003030	12/07/2019	01/08/2019	478.33	<0.29	0.51	<0.38	0.49	<0.38
A	GRA10005	12/07/2019	01/08/2019	477.42	<0.29	0.91	<0.38	0.84	<0.38
24	003536	12/07/2019	01/08/2019	477.42	<0.29	1.18	<0.38	0.93	<0.38
B	003140	12/07/2019	01/08/2019	477.25	<0.29	1.17	<0.38	0.92	<0.38
H	003219	12/07/2019	01/08/2019	477.17	<0.29	0.90	<0.38	0.66	<0.38
9	003668	12/07/2019	01/08/2019	476.75	<0.29	1.15	<0.38	0.95	0.39
14	003636	12/07/2019	01/08/2019	473.75	0.32	2.04	0.52	1.58	0.62
15	000009	12/07/2019	01/08/2019	473.67	<0.30	0.94	<0.38	0.77	<0.38
13	GRA02376	12/07/2019	01/08/2019	473.58	<0.30	0.64	<0.38	0.46	<0.38
G	001942	12/07/2019	01/08/2019	473.50	0.38	1.35	<0.38	0.87	<0.38
F	GRA02442	12/07/2019	01/08/2019	473.42	<0.30	0.85	<0.38	0.59	<0.38
O (control)	GRA09396			479.33	0.10	0.08	0.03	0.04	0.02
Laboratory Blank	GRA08992			479.33	0.05	0.01	0.01	0.01	0.01

(RESULTS ARE BLANK CORRECTED)

Tube Type Carbograph 1TD

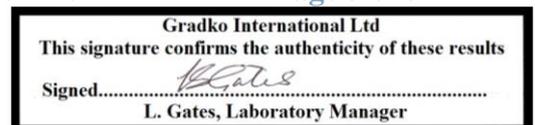
COMMENTS:

Results indicated with < are below the reporting limit calculated for time exposed.

Weeks exposed	3	Uptake rates (ng.ppm ⁻¹ min ⁻¹)	1.85	2.07	1.94	1.94	1.94
Overall M.U.	±16.6%	Reporting Limit	5ng on tube				
Analyst name	Gavin Aikman	Report checked by	C. Fraser				
Date of analysis	03/09/2019	Date of report	06/09/2019				

The analysis has been carried out in accordance with in-house method GLM13

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LABORATORY ANALYSIS REPORT

DETERMINATION OF AMBIENT AIR VOLATILE ORGANIC COMPOUNDS IN DIFFUSION TUBES BY THERMAL DESORPTION / GAS CHROMATOGRAPHY

Report number N06505R
Booking in reference no T1107
Despatch note no 73526
Customer SIA Estonian, Latvian & Lithuanian
Vilandes Iela 3
Dz. 6
Riga
Date samples received 03/09/2019

Location	Tube no	Date exposed*	Date finished*	Exposure hours*	Benzene	Toluene	BTEX Ethyl Benzene ng on Tube	mp-Xylene	o-Xylene
28	003669	13/08/2019	29/08/2019	386.25	<5.00	16.55	<5.00	10.67	<5.00
30	09209	13/08/2019	29/08/2019	385.67	6.67	19.22	<5.00	13.45	<5.00
8	001100	13/08/2019	29/08/2019	385.42	6.23	22.24	10.66	34.18	13.36
D	004041	13/08/2019	29/08/2019	385.33	<5.00	23.55	5.42	18.61	7.28
C	02214	13/08/2019	29/08/2019	385.25	<5.00	14.28	<5.00	9.00	<5.00
E	003499	13/08/2019	29/08/2019	385.33	5.12	28.27	5.29	18.63	7.03
7	04910	13/08/2019	29/08/2019	385.25	<5.00	17.95	<5.00	9.99	<5.00
J	001289	13/08/2019	29/08/2019	385.25	<5.00	15.28	<5.00	9.52	<5.00
L	003638	14/08/2019	30/08/2019	382.42	<5.00	9.77	<5.00	4.69	<5.00
K	001464	14/08/2019	30/08/2019	382.33	<5.00	9.65	<5.00	7.26	<5.00
A	11346	14/08/2019	30/08/2019	382.50	<5.00	19.40	<5.00	16.96	6.84
24	04877	14/08/2019	30/08/2019	382.42	<5.00	19.20	5.31	17.64	6.93
B	003660	14/08/2019	30/08/2019	382.17	<5.00	31.63	<5.00	17.17	7.22
H	11445	14/08/2019	30/08/2019	382.50	<5.00	19.18	5.07	15.48	7.69
9	003630	14/08/2019	30/08/2019	382.33	<5.00	16.85	<5.00	10.16	<5.00
14	003646	14/08/2019	30/08/2019	382.08	<5.00	19.05	<5.00	14.37	6.09
15	003244	14/08/2019	30/08/2019	381.83	<5.00	16.33	<5.00	10.80	<5.00
F	003278	14/08/2019	30/08/2019	382.33	<5.00	13.10	<5.00	8.92	<5.00
13	001184	14/08/2019	30/08/2019	381.50	<5.00	15.92	<5.00	8.18	<5.00
G	003682	14/08/2019	30/08/2019	381.42	<5.00	19.53	<5.00	11.38	<5.00
O (Control)	000967				1.90	0.21	0.39	0.96	0.44
Laboratory Blank					1.47	0.55	0.24	1.11	1.08

(RESULTS ARE BLANK CORRECTED)

Tube Type Carbograph 1TD

COMMENTS:

Results below 5.0ng on tube are below the reporting limit.

Overall M.U. ±16.2%

Analyst name M.Angelova

Date of analysis 20/09/2019

Reporting Limit 5ng on tube

Report checked by Katya Paldamova

Date of report 25/09/2019

The analysis has been carried out in accordance with in-house method GLM4

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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This signature confirms the authenticity of these results
Signed.....
L. Gates, Laboratory Manager

LABORATORY ANALYSIS REPORT

DETERMINATION OF AMBIENT AIR VOLATILE ORGANIC COMPOUNDS IN DIFFUSION TUBES BY THERMAL DESORPTION / GAS CHROMATOGRAPHY

Report number N06505R1
Booking in reference no T1107
Despatch note no 73526
Customer SIA Estonian, Latvian & Lithuanian
Vilandes Iela 3
Dz. 6
Riga
Date samples received 03/09/2019

Location	Tube no	Date exposed*	Date finished*	Exposure hours*	Benzene	Toluene	BTEX Ethyl Benzene	mp-Xylene	o-Xylene
Values Reported in Parts per Billion (p.p.b.) in Air *									
28	003669	13/08/2019	29/08/2019	386.25	<0.11	0.34	<0.10	0.22	<0.10
30	09209	13/08/2019	29/08/2019	385.67	0.14	0.39	<0.10	0.28	<0.10
8	001100	13/08/2019	29/08/2019	385.42	0.13	0.45	0.22	0.71	0.28
D	004041	13/08/2019	29/08/2019	385.33	<0.11	0.48	0.11	0.39	0.15
C	02214	13/08/2019	29/08/2019	385.25	<0.11	0.29	<0.10	0.19	<0.10
E	003499	13/08/2019	29/08/2019	385.33	0.11	0.57	0.11	0.39	0.15
7	04910	13/08/2019	29/08/2019	385.25	<0.11	0.36	<0.10	0.21	<0.10
J	001289	13/08/2019	29/08/2019	385.25	<0.11	0.31	<0.10	0.20	<0.10
L	003638	14/08/2019	30/08/2019	382.42	<0.11	0.20	<0.11	0.10	<0.11
K	001464	14/08/2019	30/08/2019	382.33	<0.11	0.20	<0.11	0.15	<0.11
A	11346	14/08/2019	30/08/2019	382.50	<0.11	0.40	<0.11	0.36	0.14
24	04877	14/08/2019	30/08/2019	382.42	<0.11	0.39	0.11	0.37	0.15
B	003660	14/08/2019	30/08/2019	382.17	<0.11	0.65	<0.11	0.36	0.15
H	11445	14/08/2019	30/08/2019	382.50	<0.11	0.39	0.11	0.33	0.16
9	003630	14/08/2019	30/08/2019	382.33	<0.11	0.34	<0.11	0.21	<0.11
14	003646	14/08/2019	30/08/2019	382.08	<0.11	0.39	<0.11	0.30	0.13
15	003244	14/08/2019	30/08/2019	381.83	<0.11	0.33	<0.11	0.23	<0.11
F	003278	14/08/2019	30/08/2019	382.33	<0.11	0.27	<0.11	0.19	<0.11
13	001184	14/08/2019	30/08/2019	381.50	<0.11	0.33	<0.11	0.17	<0.11
G	003682	14/08/2019	30/08/2019	381.42	<0.11	0.40	<0.11	0.24	<0.11
O (Control)	000967			386.25	0.04	0.00	0.01	0.02	0.01
Laboratory Blank				386.25	0.03	0.01	0.00	0.02	0.02

(RESULTS ARE BLANK CORRECTED)

Tube Type Carbograph 1TD

COMMENTS:

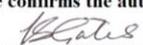
Results indicated with < are below the reporting limit calculated for time exposed.

Weeks exposed	2	Uptake rates (ng.ppm ⁻¹ min ⁻¹)	2.02	2.13	2.07	2.07	2.07
Overall M.U.	±16.2%	Reporting Limit	5ng on tube				
Analyst name	M.Angelova	Report checked by	Katya Paldamova				
Date of analysis	20/09/2019	Date of report	25/09/2019				

The analysis has been carried out in accordance with in-house method GLM4

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
 This signature confirms the authenticity of these results
 Signed.....
 L. Gates, Laboratory Manager

LABORATORY ANALYSIS REPORT

DETERMINATION OF AMBIENT AIR VOLATILE ORGANIC COMPOUNDS IN DIFFUSION TUBES BY THERMAL DESORPTION / GAS CHROMATOGRAPHY

Report number N06505R2
Booking in reference no T1107
Despatch note no 73526
Customer SIA Estonian, Latvian & Lithuanian
Vilandes Iela 3
Dz. 6
Riga
Date samples received 03/09/2019

Location	Tube no	Date exposed*	Date finished*	Exposure hours*	Benzene	Toluene	BTEX	mp-Xylene	o-Xylene
							Ethyl Benzene		
Values Reported in µgm ⁻³ in Air *									
28	003669	13/08/2019	29/08/2019	386.25	<0.33	1.23	<0.44	0.94	<0.44
30	09209	13/08/2019	29/08/2019	385.67	0.45	1.43	<0.44	1.19	<0.44
8	001100	13/08/2019	29/08/2019	385.42	0.42	1.66	0.94	3.03	1.18
D	004041	13/08/2019	29/08/2019	385.33	<0.33	1.76	0.48	1.65	0.64
C	02214	13/08/2019	29/08/2019	385.25	<0.33	1.07	<0.44	0.80	<0.44
E	003499	13/08/2019	29/08/2019	385.33	0.34	2.11	0.47	1.65	0.62
7	04910	13/08/2019	29/08/2019	385.25	<0.33	1.34	<0.44	0.89	<0.44
J	001289	13/08/2019	29/08/2019	385.25	<0.33	1.14	<0.44	0.84	<0.44
L	003638	14/08/2019	30/08/2019	382.42	<0.34	0.74	<0.45	0.42	<0.45
K	001464	14/08/2019	30/08/2019	382.33	<0.34	0.73	<0.45	0.65	<0.45
A	11346	14/08/2019	30/08/2019	382.50	<0.34	1.46	<0.45	1.51	0.61
24	04877	14/08/2019	30/08/2019	382.42	<0.34	1.45	0.47	1.57	0.62
B	003660	14/08/2019	30/08/2019	382.17	<0.34	2.38	<0.45	1.53	0.64
H	11445	14/08/2019	30/08/2019	382.50	<0.34	1.44	0.45	1.38	0.69
9	003630	14/08/2019	30/08/2019	382.33	<0.34	1.27	<0.45	0.91	<0.45
14	003646	14/08/2019	30/08/2019	382.08	<0.34	1.44	<0.45	1.28	0.54
15	003244	14/08/2019	30/08/2019	381.83	<0.34	1.23	<0.45	0.97	<0.45
F	003278	14/08/2019	30/08/2019	382.33	<0.34	0.99	<0.45	0.80	<0.45
13	001184	14/08/2019	30/08/2019	381.50	<0.34	1.20	<0.45	0.73	<0.45
G	003682	14/08/2019	30/08/2019	381.42	<0.34	1.47	<0.45	1.02	<0.45
O (Control)	000967			386.25	0.13	0.02	0.03	0.08	0.04
Laboratory Blank				386.25	0.10	0.04	0.02	0.10	0.10

(RESULTS ARE BLANK CORRECTED)

Tube Type Carbograph 1TD

COMMENTS:

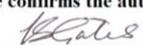
Results indicated with < are below the reporting limit calculated for time exposed.

Weeks exposed	2	Uptake rates (ng.ppm ⁻¹ min ⁻¹)	2.02	2.13	2.07	2.07	2.07
Overall M.U.	±16.2%	Reporting Limit	5ng on tube				
Analyst name	M.Angelova	Report checked by	Katya Paldamova				
Date of analysis	20/09/2019	Date of report	25/09/2019				

The analysis has been carried out in accordance with in-house method GLM4

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
 This signature confirms the authenticity of these results
 Signed.....
 L. Gates, Laboratory Manager