TTL LABORATORIES
Independent Testing for Your Products
A DIVISION OF RI ANALYTICAL

LABORATORY REPORT

Dischem International, Inc.
Attn: Mr. Raj Lakhia
4252 Strausser Street NW
North Canton, OH 44720

Date Received: 04/25/2018
Date Reported: 05/07/2018
P.O. Number:
Date Revised: 05/15/2018

Work Order #: 1804-08547 REV A

Project Name: ASSORTED INKS - PAH ANALYSIS

Note: This revised report supercedes and replaces the previous version(s) of the test report.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) has/have been analyzed by our subcontracted laboratory, STC (Shanghai) Company Limited.

References: The specific methodologies and/or technologies are listed in the attached report.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order. This report shall not be reproduced, except in its entirety, without the prior written consent of TTL Laboratories.

CPSC-Accepted Testing Laboratory - Identification Number: 1097
ISO/IEC 17025 accreditation issued by A2LA - Certificates 2815.01 & 2815.02

We certify that the following results are true and accurate to the best of our knowledge. Should you have questions or need further assistance, please contact us at 401-562-1360.

Approved by:

Benjamin Miranda
Technical Director

LABORATORY REPORT

Dischem International, Inc.
Work Order #: 1804-08547
Project Name: ASSORTED INKS - PAH ANALYSIS

Sample Number: 001
Sample Description: ASSORTED INKS

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Compliance Testing	*				5/4/2018	*SC

Test Report

Date : 2018-05-10 **Page 1 of 12**
No. : SP18040327

Applicant	:	TTL Laboratories 41 Illinois Ave Warwick, RI 02888 Attn: Philip Kalf
Description of Samples	:	One (1) group of submitted samples said to be: ASSORTED INKS
Date Samples Received	:	2018-04-26, 2018-05-09
Date Tested	:	2018-04-26 to 2018-05-10

Requirements	Conclusion
1. Polycyclic Aromatic Hydrocarbons (PAHs) content -AfPS GS 2014: 01PAK	Pass

This Test Report supersedes our previous Test Report No. SP18040327 issued on 2018-05-04 which is hereby deemed null and void.

HUANG Qinglai, Owen
Authorized Signatory
Toys and Children's Products Dept
For and on behalf of
STC (Shanghai) Company Limited

Test Report

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Item No.	Component Description
Paint materials:	
1	(2112)Ink: fuchsia
2	(2422)Ink: red
3	(PY-201)Ink: wine red
4	(6011)Ink: royal blue
5	(6023)Ink: black
6	(PY-601)Ink: dark purple
7	(PY-401)Ink: yellow
8	(3004)Ink: deep green
9	(8008)Ink: golden
10	(9008)Ink: pearl white
11	(8115)Ink: purple
12	(8007)Ink: purple
13	(FL-201)Ink: orange red
14	(FL-301)Ink: green
15	(FL-401)Ink: yellow
16	(FL-601)Ink: royal blue
17	(FL-801)Ink: rose red
18	(FL-901)Ink: orange
19	(2007)Ink: red brown
20	(3007)Ink: deep green
21	(4007)Ink: yellow
22	(5007)Ink: white
23	(5009)Ink: white
24	(7003)Ink: black
25	(7007)Ink: black
26	(9007)Ink: orange
27	(6007)Ink: dark purple

Test Report

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Test Results:

1. Polycyclic Aromatic Hydrocarbons (PAHS) content
Ref.: AfPS GS 2014: 01PAK
Determined by: Gas Chromatography Mass Spectrometer

Category 1 : Materials intended to be put in the mouth, or materials of toys with intended to long-term skin contact(longer than 30 seconds)

No	Test Item(s)	CAS No.	Result(mg/kg)		Category 1 Limit (mg/kg)
			1+2+3	4+5+6	
(1)	Naphthalene	91-20-3	ND	ND	< 1
(2)	Acenaphthylene	208-96-8	ND	ND	Sum <1
(3)	Acenaphthene	83-32-9	ND	ND	
(4)	Fluorene	86-73-7	ND	ND	
(5)	Phenanthrene	85-01-8	ND	ND	
(6)	Anthracene	120-12-7	ND	ND	
(7)	Fluoranthene	260-44-0	ND	ND	
(8)	Pyrene	129-00-0	ND	ND	
(9)	Benzo (a) anthracene	56-55-3	ND	ND	<0.2
(10)	Chrysene	218-01-9	ND	ND	<0.2
(11)	Benzo (b) fluoranthene	205-99-2	ND	ND	<0.2
(12)	Benzo (k) fluoranthene	207-08-9	ND	ND	<0.2
(13)	Benzo (a) pyrene	50-32-8	ND	ND	<0.2
(14)	Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	<0.2
(15)	Dibenzo (a,h) anthracene	53-70-3	ND	ND	<0.2
(16)	Benzo (g,h,i) perylene	191-24-2	ND	ND	<0.2
(17)	Benzo (e) pyrene	192-97-2	ND	ND	<0.2
(18)	Benzo (j) fluoranthene	205-82-3	ND	ND	<0.2
Sum 18 PAH		-	ND	ND	<1

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Test Results:

No	Test Item(s)	CAS No.	Result(mg/kg)		Category 1 Limit (mg/kg)
			7+8	9+10	
(1)	Naphthalene	91-20-3	ND	ND	< 1
(2)	Acenaphthylene	208-96-8	ND	ND	Sum <1
(3)	Acenaphthene	83-32-9	ND	ND	
(4)	Fluorene	86-73-7	ND	ND	
(5)	Phenanthrene	85-01-8	ND	ND	
(6)	Anthracene	120-12-7	ND	ND	
(7)	Fluoranthene	260-44-0	ND	ND	
(8)	Pyrene	129-00-0	ND	ND	
(9)	Benzo (a) anthracene	56-55-3	ND	ND	<0.2
(10)	Chrysene	218-01-9	ND	ND	<0.2
(11)	Benzo (b) fluoranthene	205-99-2	ND	ND	<0.2
(12)	Benzo (k) fluoranthene	207-08-9	ND	ND	<0.2
(13)	Benzo (a) pyrene	50-32-8	ND	ND	<0.2
(14)	Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	<0.2
(15)	Dibenzo (a,h) anthracene	53-70-3	ND	ND	<0.2
(16)	Benzo (g,h,i) perylene	191-24-2	ND	ND	<0.2
(17)	Benzo (e) pyrene	192-97-2	ND	ND	<0.2
(18)	Benzo (j) fluoranthene	205-82-3	ND	ND	<0.2
Sum 18 PAH		-	ND	ND	<1

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Test Results:

No	Test Item(s)	CAS No.	Result(mg/kg)		Category 1 Limit (mg/kg)
			11+12	13+14+15	
(1)	Naphthalene	91-20-3	ND	ND	< 1
(2)	Acenaphthylene	208-96-8	ND	ND	Sum <1
(3)	Acenaphthene	83-32-9	ND	ND	
(4)	Fluorene	86-73-7	ND	ND	
(5)	Phenanthrene	85-01-8	ND	ND	
(6)	Anthracene	120-12-7	ND	ND	
(7)	Fluoranthene	260-44-0	ND	ND	
(8)	Pyrene	129-00-0	ND	ND	
(9)	Benzo (a) anthracene	56-55-3	ND	ND	<0.2
(10)	Chrysene	218-01-9	ND	ND	<0.2
(11)	Benzo (b) fluoranthene	205-99-2	ND	ND	<0.2
(12)	Benzo (k) fluoranthene	207-08-9	ND	ND	<0.2
(13)	Benzo (a) pyrene	50-32-8	ND	ND	<0.2
(14)	Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	<0.2
(15)	Dibenzo (a,h) anthracene	53-70-3	ND	ND	<0.2
(16)	Benzo (g,h,i) perylene	191-24-2	ND	ND	<0.2
(17)	Benzo (e) pyrene	192-97-2	ND	ND	<0.2
(18)	Benzo (j) fluoranthene	205-82-3	ND	ND	<0.2
Sum 18 PAH		-	ND	ND	<1

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Test Results:

No	Test Item(s)	CAS No.	Result(mg/kg)		Category 1 Limit (mg/kg)
			16+17+18	19	
(1)	Naphthalene	91-20-3	ND	ND	< 1
(2)	Acenaphthylene	208-96-8	ND	ND	Sum <1
(3)	Acenaphthene	83-32-9	ND	ND	
(4)	Fluorene	86-73-7	ND	ND	
(5)	Phenanthrene	85-01-8	ND	ND	
(6)	Anthracene	120-12-7	ND	ND	
(7)	Fluoranthene	260-44-0	ND	ND	
(8)	Pyrene	129-00-0	ND	ND	
(9)	Benzo (a) anthracene	56-55-3	ND	ND	<0.2
(10)	Chrysene	218-01-9	ND	ND	<0.2
(11)	Benzo (b) fluoranthene	205-99-2	ND	ND	<0.2
(12)	Benzo (k) fluoranthene	207-08-9	ND	ND	<0.2
(13)	Benzo (a) pyrene	50-32-8	ND	ND	<0.2
(14)	Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	<0.2
(15)	Dibenzo (a,h) anthracene	53-70-3	ND	ND	<0.2
(16)	Benzo (g,h,i) perylene	191-24-2	ND	ND	<0.2
(17)	Benzo (e) pyrene	192-97-2	ND	ND	<0.2
(18)	Benzo (j) fluoranthene	205-82-3	ND	ND	<0.2
Sum 18 PAH		-	ND	ND	<1

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Test Results:

No	Test Item(s)	CAS No.	Result(mg/kg)				Category 1 Limit (mg/kg)
			20	21	22	23	
(1)	Naphthalene	91-20-3	ND	ND	ND	ND	< 1
(2)	Acenaphthylene	208-96-8	ND	ND	ND	ND	Sum <1
(3)	Acenaphthene	83-32-9	ND	ND	ND	ND	
(4)	Fluorene	86-73-7	ND	ND	ND	ND	
(5)	Phenanthrene	85-01-8	ND	ND	ND	ND	
(6)	Anthracene	120-12-7	ND	ND	ND	ND	
(7)	Fluoranthene	260-44-0	ND	ND	ND	ND	
(8)	Pyrene	129-00-0	ND	ND	ND	ND	
(9)	Benzo (a) anthracene	56-55-3	ND	ND	ND	ND	<0.2
(10)	Chrysene	218-01-9	ND	ND	ND	ND	<0.2
(11)	Benzo (b) fluoranthene	205-99-2	ND	ND	ND	ND	<0.2
(12)	Benzo (k) fluoranthene	207-08-9	ND	ND	ND	ND	<0.2
(13)	Benzo (a) pyrene	50-32-8	ND	ND	ND	ND	<0.2
(14)	Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	ND	ND	<0.2
(15)	Dibenzo (a,h) anthracene	53-70-3	ND	ND	ND	ND	<0.2
(16)	Benzo (g,h,i) perylene	191-24-2	ND	ND	ND	ND	<0.2
(17)	Benzo (e) pyrene	192-97-2	ND	ND	ND	ND	<0.2
(18)	Benzo (j) fluoranthene	205-82-3	ND	ND	ND	ND	<0.2
Sum 18 PAH		-	ND	ND	ND	ND	<1

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Test Results:

No	Test Item(s)	CAS No.	Result(mg/kg)				Category 1 Limit (mg/kg)
			24	25	26	27	
(1)	Naphthalene	91-20-3	ND	ND	ND	ND	< 1
(2)	Acenaphthylene	208-96-8	ND	ND	ND	ND	Sum <1
(3)	Acenaphthene	83-32-9	ND	ND	ND	ND	
(4)	Fluorene	86-73-7	ND	ND	ND	ND	
(5)	Phenanthrene	85-01-8	ND	ND	ND	ND	
(6)	Anthracene	120-12-7	ND	ND	ND	ND	
(7)	Fluoranthene	260-44-0	ND	ND	ND	ND	
(8)	Pyrene	129-00-0	ND	ND	ND	ND	
(9)	Benzo (a) anthracene	56-55-3	ND	ND	ND	ND	<0.2
(10)	Chrysene	218-01-9	ND	ND	ND	ND	<0.2
(11)	Benzo (b) fluoranthene	205-99-2	ND	ND	ND	ND	<0.2
(12)	Benzo (k) fluoranthene	207-08-9	ND	ND	ND	ND	<0.2
(13)	Benzo (a) pyrene	50-32-8	ND	ND	ND	ND	<0.2
(14)	Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	ND	ND	<0.2
(15)	Dibenzo (a,h) anthracene	53-70-3	ND	ND	ND	ND	<0.2
(16)	Benzo (g,h,i) perylene	191-24-2	ND	ND	ND	ND	<0.2
(17)	Benzo (e) pyrene	192-97-2	ND	ND	ND	ND	<0.2
(18)	Benzo (j) fluoranthene	205-82-3	ND	ND	ND	ND	<0.2
Sum 18 PAH		-	ND	ND	ND	ND	<1

Notes:
- ND = Not detected
- mg/kg = milligram per kilogram.
- Maximum PAH levels see Table 1.

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Test Results:

Table 1: Maximum PAH levels to be complied with for the materials in relevant contact/grip and operating surfaces that are to be categorised based on the results of the risk assessment.

Parameter	Category 1	Category 2		Category 3	
	Materials indented to be put in the mouth, or materials of toys with intended long- term skin contact (longer than 30 s)	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact		Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)	
		Toys in the scope of 2009/48/EC	Other products in the scope of ProdSG	Toys in the scope of 2009/48/EC	Other products in the scope of ProdSG
Benzo(a)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	<0.5	< 1
Dibenzo(a,h)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo (g,h,i)perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno (1,2,3-cd)-pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
AcenaphthyleneAcenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene	<1 sum	< 5 sum	< 10 sum	< 20 sum	< 50 sum
Naphthalene	< 1	< 2		< 10	
Sum 18 PAH	< 1	< 5	< 10	< 20	< 50

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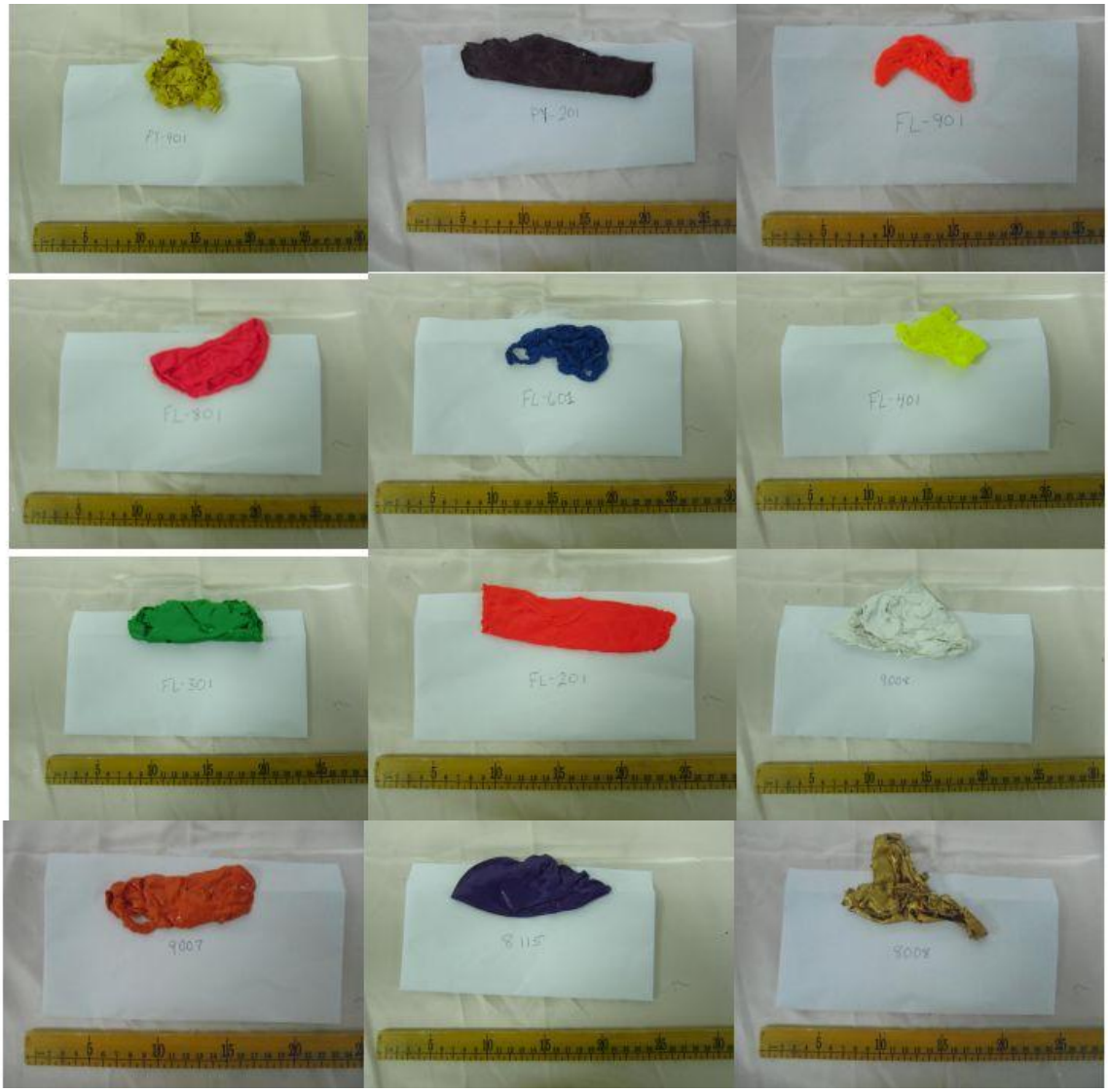
The photo of submitted samples



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STC (Shanghai) Company Limited
130 Huashen Road, Waigaoqiao Pilot Free Trade Zone, Shanghai, China. Zip Code: 200131
Tel: +86 21 5219 8248 Fax: +86 21 5219 8249 Email: shstc@shstc.org Website: www.stc-group.org

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******* End of Test Report *******

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by The STC (Shanghai) Company Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by the Company as a result of this application for testing service (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.

5. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

10. Issuance records of the Report are available on the internet at www.stc-group.org. Further enquiry of validity or verification of the Reports should be addressed to the Company.

TTL LABORATORIES
Independent Testing for Your Products
A DIVISION OF RI ANALYTICAL

Chain of Custody Record

Wednesday, April 25, 2018

Quote No. TTL1804029 ASSORTED INKS PAH'S

Client Information

Client Name: Dischem International, Inc.	Contact Name: Raj Lakhia
Client Address: 4252 Strausser Street N.W.	Phone: 330-494-5210
City, State: North Canton, OH	Fax: 330-494-1305
Zip/Postal Code: 44720	Email: raj.lakhia@dischem.com
Additional Emails:	

Product Information

Project Name: ASSORTED INKS- PAH'S	
Age Grade:	Manufacture Date:
Item #:	Tracking Info:

TTL Contact Information

Representative: Philip Kalf	Office: 401-562-1360
Street Address: 41 Illinois Ave.	Mobile: 401-573-6085
City, State: Warwick, RI	Fax: 401-732-8034
Zip/Postal Code: 02888	Email: pkalf@ttl-labs.com

Billing Information

Bill To: Dischem International, Inc.	
Billing Contact: Raj Lakhia	Phone: 330-494-5210
Billing Address: 4252 Strausser Street N.W.	Fax: 330-494-1305
City, State: North Canton, OH	Email: raj.lakhia@dischem.com
Zip/Postal Code: 44720	PO#:

Testing Summary

Turn-Around: 5 - 7 Business Days Standard

Quote Valid Until:

Comments:

Important Sample Handling Information

- All samples are disposed of **45 days** after the final report is issued unless TTL Laboratories is contacted to make alternate arrangements.
- Please refer to the "Analytical Services Quotation" for specific testing details.

By Signing the "Relinquished By" Section of the Chain of Custody Record, I hereby authorize TTL Laboratories to begin the analysis outlined in the Analytical Services Quotation below.

Relinquished By: R Lakhia Date: 4/25/18 Time: 10:30 AM

Received By: Philip Kalf Date: 4-25-18 Time: 10:43

Lab Use Only - WO# 1804-08547