

Dated: 2021-07-08



Applicant : Spector & Co

Address : /

Sample Description : BALLPOINT PEN

Product Type / End Use : WRITING INSTRUMENT

Item No. : G1201

Style No. : MILO

Supplier : USY007

Country of Origin : China

Country of Destination : Canada & U.S.A.

Test Sample Receipt Date, Location : 2021-04-13, 2021-04-27, Shenzhen

Test Period, Location : From 2021-04-13 to 2021-05-07, Shenzhen

Test Result(s) : Refer to Section 3

Laboratory:

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Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate	Pass*
١.	Materials	1 033
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and	Pass*
	Similar Surface-Coating Materials	. 400
3.	US California Proposition 65 - Total Lead Content Test - Substrate	Pass*
<u> </u>	Materials	
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar	Pass*
	Surface-Coating Materials	
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-	Pass
<u> </u>	83 - Total Lead Content Test	
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 –	Pass
	Total Lead Content Test	
7.	Phthalates Content (11P)	Pass*
8.	US California Proposition 65 - Phthalates Content (6P)	Pass*
9.	U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates	Pass
9.	Content (8P)	F d 5 5
10.	Tungsten Content Test	Report As Is
11.	Canadian Surface Coating Materials Regulations SOR/2016-193 -	Pass
11.	Total Mercury Content Test	1 000
12.	Nickel Content Test	Report As Is

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) "*" denotes the conclusion was drawn according to the client's specification.
- (4) The test item and samples were specified by the client.
- (5) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "pass", "Fail" and "Inconclusive" is 95%.
- (6) This report supersedes previous report 68.431.21.02262.01 issued on 2021-05-08. As per client request, item no. shown on page 1 was changed to G1201.

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Prepared by: Reviewed by:

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1. Description of the Test Sample:



2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Black plastic (Black / red pen)	
T2	002	Dark grey plastic (Silvery / blue pen)	004 005 006
Т3	003	Black plastic (Pen)	002
T4	004	Silvery coating (Pen)	002
T5	005	Red coating (Pen)	8 9 50 1 2 3 4 5 6 7 8 9 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4
Т6	006	Black coating (Pen)	
Т7	007	Blue coating (Pen)	008
Т8	008	Silvery metal (Clip)	8 9 5 0 1 2 3 4 5 6 7 8 9 6 0 1 2 3 4 5 6 7 8 9 7 0 1 2 3 4 5 6 7

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T. No.	Sample No.	Colour and Description	Photograph
Т9	009	Bright silvery coating (Pen)	010
T10	010	Silvery plated translucent white plastic (Top of pen, ring & end of pen)	
T11	011	White plastic (Parts)	
T12	012	Silvery metal (Spring)	
T13	013	Silvery metal (Tip of refill)	012
T14	014	Silvery metal (Ball of refill)	013
T15	015	White plastic (Refill)	011
T16	016	Blue ink (Ink)	015 016

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3. Test Result

3.1 US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

Test method: Acid digestion/Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	F	Client's		
Test item	Sample 001+002+003	Sample 008	Sample 010	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]			Client's
Test item	Sample 011+015	Sample 012	Sample 013	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]	Client's
Test item	Sample	Specification
	014	[mg/kg]
Cadmium	N.D.	<75
Conclusion	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.2 US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	I	Client's		
Test Item	Sample 004	Sample 005	Sample 006	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test Item	Sample 007	e Sample 009	Sample 016	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.3 US California Proposition 65 - Total Lead Content Test - Substrate Materials

Test method: Acid digestion or Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	F	Client's		
Test Item	Sample 001+002+003	Sample 008	Sample 010	Specification [mg/kg]
Lead	N.D.	N.D.	N.D.	<100
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]			Client's
Test Item	Sample 011+015	Sample 012	Sample 013	Specification [mg/kg]
Lead	N.D.	N.D.	46.1	<100
Conclusion	Pass	Pass	Pass	-

Test Item	Results [mg/kg] Sample 014	Client's Specification [mg/kg]
Lead	N.D.	<100
Conclusion	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.4 US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission

Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	F	Client's		
Test Item	Sample 004	Sample 005	Sample 006	Specification [mg/kg]
Lead	N.D.	N.D.	N.D.	<90
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]			
Test Item	Sample 007	Sample 009	Sample 016	Specification [mg/kg]	
Lead	N.D.	N.D.	N.D.	<90	
Conclusion	Pass	Pass	Pass	-	

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.5 Total Lead Content Test

Consumer Products Containing Lead Regulations SOR/2018-83
Acid digestion / Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

		Result [mg/kg]					
Analyte	Sample	Sample	Sample				
	001+002+003	004	005				
Lead	N.D.	N.D.	N.D.				
Limit		<90					
Conclusion	Pass	Pass	Pass				

	Result [mg/kg]					
Analyte	Sample Sample Sample 006 007 008					
Lead	N.D.	N.D.	N.D.			
Limit		<90				
Conclusion	Pass	Pass	Pass			

		Result [mg/kg]					
Analyte	Sample 009						
Lead	N.D.	N.D.	N.D.				
Limit		<90					
Conclusion	Pass	Pass	Pass				

	Result [mg/kg]					
Analyte	Sample	Sample	Sample			
	012	013	014			
Lead	N.D.	46.1	N.D.			
Limit	<90					
Conclusion	Pass	Pass	Pass			

	Result [mg/kg]
Analyte	Sample
	016
Lead	N.D.
Limit	<90
Conclusion	Pass

Note 1. "mg/kg" denotes milligram per kilogram

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.6 Total Lead Content Test

Surface Coating Materials Regulations SOR/2016-193
Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-

OES). [Reporting Limit: 10.0mg/kg]

	Result [mg/kg]					
Analyte	Sample Sample Sample 004 005 006					
Lead	N.D.	N.D.	N.D.			
Limit	<90					
Conclusion	Pass	Pass	Pass			

		Result [mg/kg]					
Analyte		Sample 007	Sample 009	Sample 016			
Lead	/_	N.D.	N.D.	N.D.			
Limit			<90				
Conclusion		Pass	Pass	Pass			

Note 1. "mg/kg" denotes milligram per kilogram

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.7 **Phthalates Content (11P)**

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		F	Results [%	Client's	
Test Items	CASINO	Sample 001+002 +003	Sample 004+005 +006	Sample 007	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion	•	Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 0.005%

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3.7 Phthalates Content (11P)

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		F	Results [%	Client's	
Test Items	CAS No.	Sample 009	Sample 010	Sample 011+015	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	0.009	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	0.009	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	0.009	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion	1	Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 0.005%

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3.7 Phthalates Content (11P)

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%] Sample 016	Client's Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	<0.1
Conclusion		Pass	-

Note 1. "%" denotes percentage by weight

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 0.005%

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US California Proposition 65 - Phthalates Content (6P) 3.8

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		Results [%]			Client's	
Test Items	CAS No.	Sample 001+002 +003	Sample 004+005 +006	Sample 007	Specification [%]	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1	
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1	
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1	
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1	
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1	
Conclusion	GIII	Pass	Pass	Pass	-	

		_/ F	Results [%	6]	Client's
Test Items	CAS No.	Sample 009	Sample 010	Sample 011+015	Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	0.009	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	0.009	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	0.009	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

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3.8 US California Proposition 65 - Phthalates Content (6P)

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%] Sample 016	Client's Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Conclusion		Pass	-

Note 1. "%" denotes percentage by weight

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 0.005%

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3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P) CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

		F	Results [%]	
Phthalates	CAS No.	Sample 001+002 +003	Sample 004+005 +006	Sample 007	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

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^{2. &}quot;<" denotes less than

^{3. &}quot;N.D." denotes Not Detected with Detection Limit 0.005%

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3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P) CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

		F	Results [%	6]	Limit
Phthalates	CAS No.	Sample 009	Sample 010	Sample 011+015	[%]
Dibutyl phthalate, (DBP)	84-74-2	0.009	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	0.009	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	0.009	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 0.005%

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U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P) 3.9 CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%] Sample 016	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	<0.1
Conclusion		Pass	-

Note 1. "%" denotes percentage by weight

3. "N.D." denotes Not Detected with Detection Limit 0.005%

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^{2. &}quot;<" denotes less than

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3.10 Tungsten Content Test

Test method: EPA 3050B:1996, analyzed by Inductively Coupled Plasma Optical Emission

Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results [mg/kg]	Client's
Test Item	Sample 008	Specification [mg/kg]
Tungsten	N.D.	-
Conclusion	Report As Is	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg



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3.11 Total Mercury Content Test

Surface Coating Materials Regulations SOR/2016-193 Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	I	Limit		
Test Item	Sample 004	Sample 005	Sample 006	[mg/kg]
Mercury	N.D.	N.D.	N.D.	<10
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]			
Test Item	Sample 007	Sample 009	Sample 016	Limit [mg/kg]	
Mercury	N.D.	N.D.	N.D.	<10	
Conclusion	Pass	Pass	Pass	-	

Note 1. "mg/kg" denotes milligram per kilogram

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.12 Nickel Content Test

Test method: Acid digestion and analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 5.0mg/kg]

	F	Results [mg/kg]		
Test Item	Sample 008	Sample 012	Sample 013	Specification [mg/kg]
Nickel	32909.18	92.55	41.09	-
Conclusion	Report As Is	Report As Is	Report As Is	-

Took How	Results [mg/kg]	Client's
Test Item	Sample 014	Specification [mg/kg]
		[iiig/kg]
Nickel	50280.37	-
Conclusion	Report As Is	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 5.0mg/kg

-- END OF TEST REPORT--

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