

Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	883-055	Contact Clip	3-12
2	875-521	Back terminal	3-12
3	891-023	Knob Insert	3-12
4	875-525	Side Terminal	3-12
5	912-296	Compress Spring	13-20
6	3455LS1-2	Knob (Polycarbonate 10% Glass Filled- 057838)	21-33
7	3453RF1-1/ 3453LF1-1/ 3453LF-3/ 3453LF1-2/ 3453HS1-1	Body/ Finger Knob/ Back Cap (Valox DR48 - 057259) - RoHS	34-40
8	3453RF1-1/ 3453LF1-1/ 3453LF-3/ 3453LF1-2/ 3453HS1-1	Body/ Finger Knob/ Back Cap (Valox DR48 - 057259) - Halogen	41-45
9	903-097	Hex Nut	56-52



Report No.: MX11-0746

Date : 2011-04-25

RESULTS REPORT
INTERTEK TESTING SERVICES
DE MEXICO SA DE CV
LABORATORIO CD. DE MEXICO

DELIVER TO:

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38,
Piedras Negras, Coahuila

ATTENTION: Ing. María Valdez

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Report No.: MX11-0746
Date : 2011-04-25

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. María Valdez

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description	NP
	1) 875-525 Side terminal
	2) 875-521 Back terminal
Item No.	3) 883-055 5X20 Cont Clip
	4) 891-023 Knob Insert
	5) 912-296 Compress spring

Country of Origin NP
Buyer's Name NP
Supplier's Name NP
Date sample received 2011-04-07
Testing period 2011-04-11 to 2011-04-18

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

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CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1a (Base)	875-525 Side terminal	Pass See Result summary	---	---
1b (Plat)	875-525 Side terminal	Pass See Result summary	---	---
2a (Base)	875-521 Back terminal	Pass See Result summary	---	---
2b (Plat)	875-521 Back terminal	Pass See Result summary	---	---
3a (Base)	883-055 5X20 Cont Clip	Pass See Result summary	---	---
3b (Plat)	883-055 5X20 Cont Clip	Pass See Result summary	---	---
4a (Base)	891-023 Knob Insert	Pass See Result summary	---	---
4b (Plat)	891-023 Knob Insert	Pass See Result summary	---	---
5a (Base)	912-296 Compress spring	Pass See Result summary	---	---
5b (Plat)	912-296 Compress spring	Pass See Result summary	---	---

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Report No.: MX11-0746
Date : 2011-04-25

TEST CONDUCTED

Samples:

- 1) 875-525 Side terminal
- 2) 875-521 Back terminal

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(1a) base	(1b) Plat	(2a) base	(2b) Plat	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	30,34	ND	60,54	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	ND	0,1% (1000 ppm)

Samples:

- 3) 883-055 5X20 Cont Clip
- 4) 891-023 Knob Insert

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(3a) base	(3b) Plat	(4a) base	(4b) Plat	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	8,244	ND	18,05	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	ND	0,1% (1000 ppm)

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Report No.: MX11-0746

Date : 2011-04-25

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO
ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF
Cr(VI) PLAT. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE
BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS
THE Cr(VI) CONCENTRATION IN THE PLAT LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0746-01 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0746-02 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0746-03 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0746-04 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0746-05 WERE TESTED SEPARATED.

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-5	Chromium VI (Cr ⁶⁺) content	With reference to USEPA 3060, by EPA 7196	QHU2010-45p19	2011-04-18	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
(1a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	5,0
(1b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	125,0
(2a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	5,0
(2b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	83,3
(3a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	5,0
(3b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	125,0
(4a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	5,0
(4b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	125,0
(5a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-40p107	2011-04-13	MARY	20,0
(5b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	125,0

The sample MX11-0746-05a for Lead was analyzed for EPA 7000, the method EPA 6010 presents
espectral interference.

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Report No.: MX11-0746

Date : 2011-04-25

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
(1a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(1b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	50,0
(2a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(2b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	33,3
(3a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(3b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	50,0
(4a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(4b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	50,0
(5a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(5b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	50,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
(1a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(1b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,0
(2a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(2b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,25
(3a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(3b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,0
(4a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(4b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,0
(5a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(5b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,25

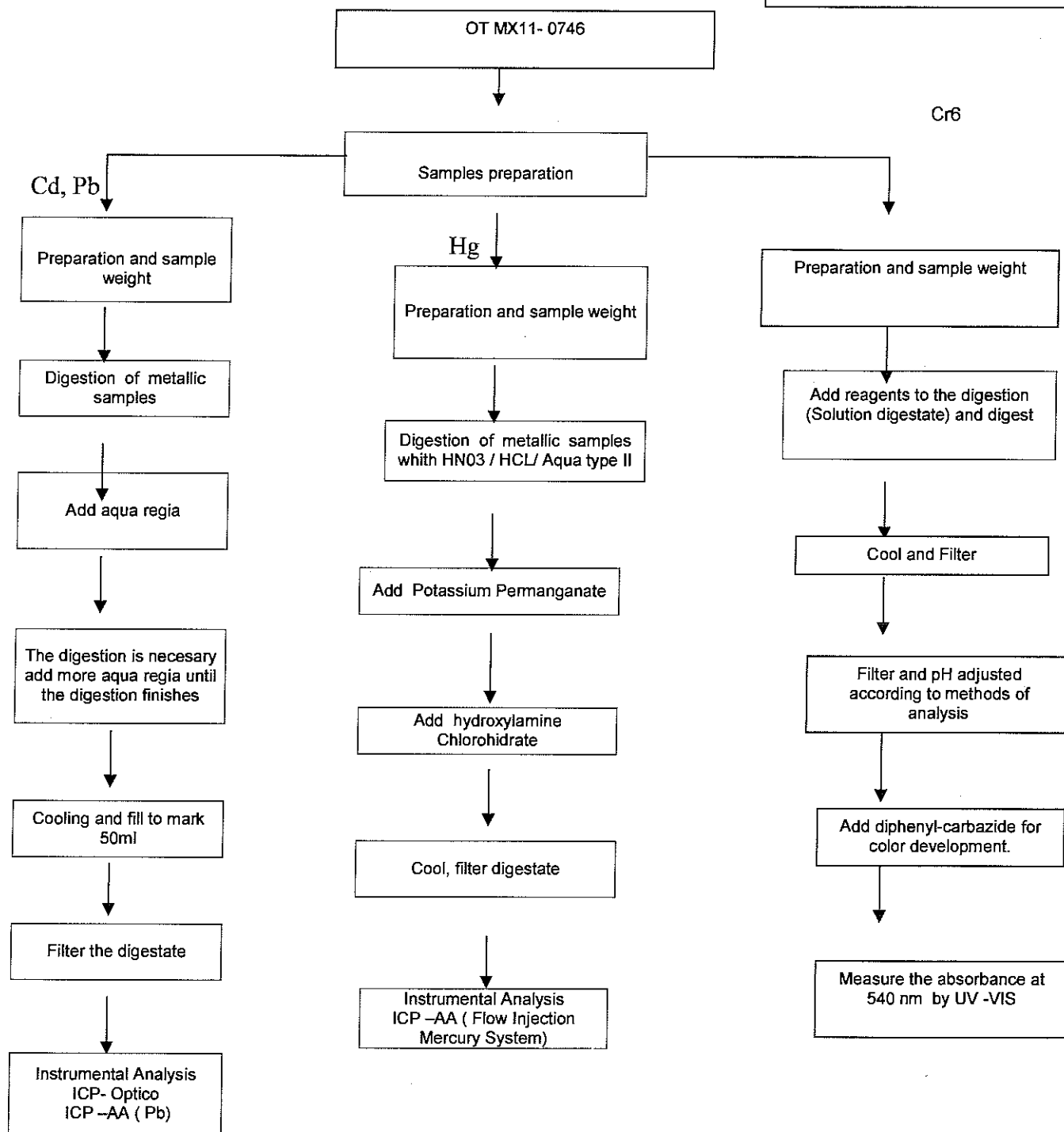
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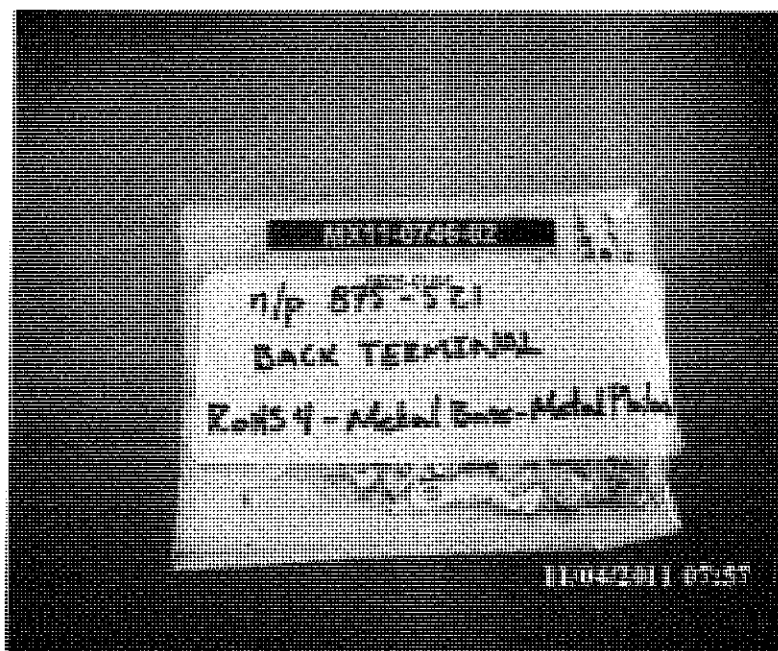
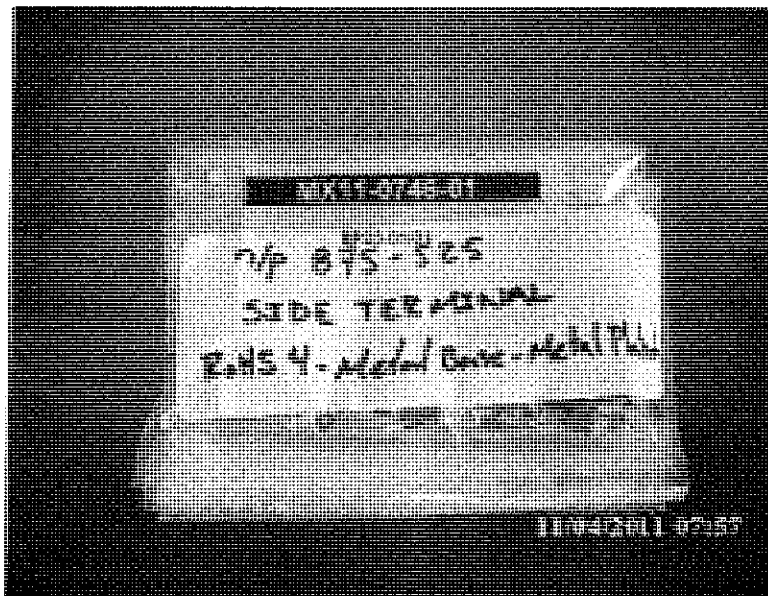


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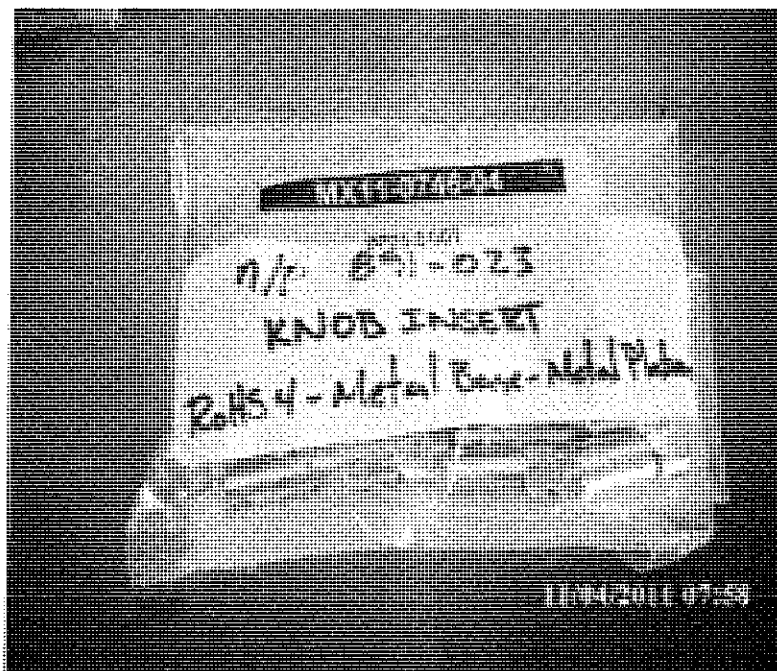
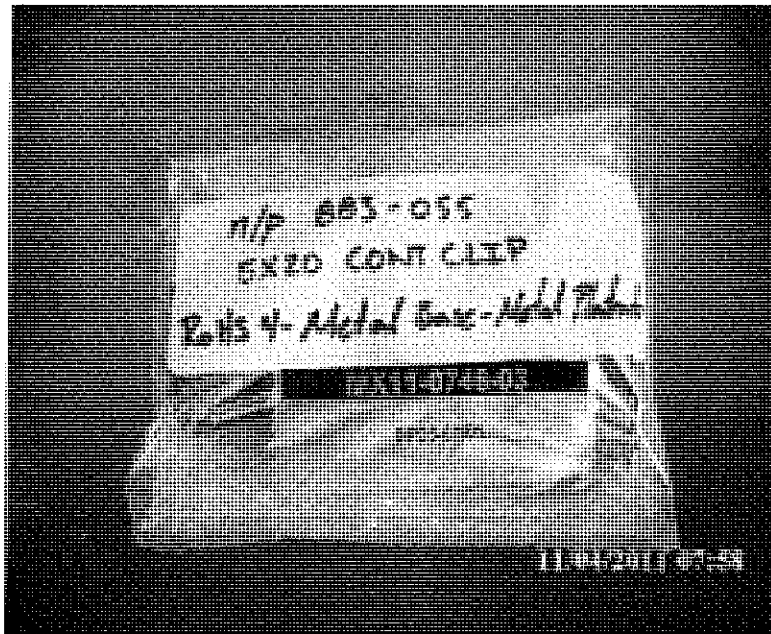
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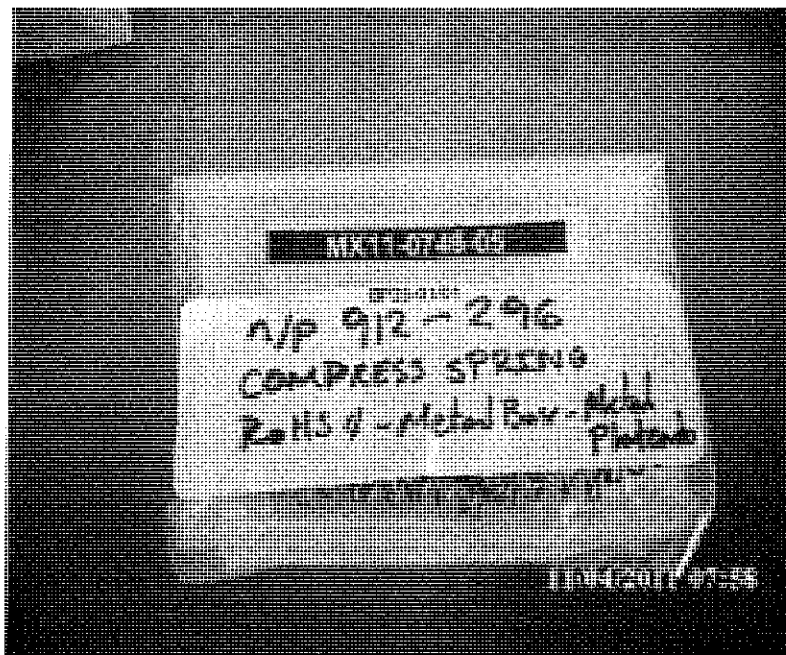
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RESULTS REPORT

INTERTEK TESTING SERVICES

DE MEXICO SA DE CV

LABORATORIO CD. DE MEXICO

DELIVER TO:

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38,
Piedras Negras, Coahuila

ATTENTION: Ing. María Valdez

000001



Report No.: MX11-0834

Date : 2011-05-25

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. María Valdez

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description NP
1) N/P 912-072 Spring
2) N/P 912-296 Compress Spring
Item No. 3) N/P 070126 Wire stainless steel-030 DIA
4) N/P 875-521 Back Terminal

Country of Origin NP
Buyer's Name NP
Supplier's Name NP
Date sample received 2011-04-18
Testing period 2011-04-25 to 2011-05-13

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1 (Base)	N/P 912-072 Spring	Pass See Result summary	---	---
1 (Plated)	N/P 912-072 Spring	Pass See Result summary	---	---
2 (Base)	N/P 912-296 Compress Spring	Pass See Result summary	---	---
2 (Plated)	N/P 912-296 Compress Spring	Pass See Result summary	---	---
3 (Base)	N/P 070126 Wire stainless steel-030 DIA	Pass See Result summary	---	---
3 (Plated)	N/P 070126 Wire stainless steel-030 DIA	Pass See Result summary	---	---
4 (Plated)	N/P 875-521 Back Terminal	Pass See Result summary	---	---

000002

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Report No.: MX11-0834

Date : 2011-05-25

TEST CONDUCTED

Samples:

- 1) Base N/P 912-072 Spring
- 1) Plated N/P 912-072 Spring
- 2) Base N/P 912-296 Compress Spring
- 2) Plated N/P 912-296 Compress Spring

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(1) Base	(1) Plated	(2) Base	(2) Plated	
Cadmium (Cd) content	43,05	ND	38,50	ND	0,01% (100 ppm)
Lead (Pb) content	29,16	ND	31,96	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	ND	0,1% (1000 ppm)

Samples:

- 3) Base N/P 070126 Wire stainless steel-030 DIA
- 3) Plated N/P 070126 Wire stainless steel-030 DIA
- 4) Plated N/P 875-521 Back Terminal

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit
	(3) Base	(3) Plated	(4) Plated	
Cadmium (Cd) content	38,58	ND	ND	0,01% (100 ppm)
Lead (Pb) content	31,59	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)

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ppm = parts per million based on dry weight of sample.

$\mu\text{g}/\text{cm}^2$ = microgram per square centimeter.

mg/kg WITH 50cm^2 = milligram per kilogram with 50 square centimeter.

< = less than.

ND = Not detected.

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω .

Prepared and checked by :

For Intertek

Irma Lopez M
[Signature]
Co d de area

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE : DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0834-01 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0834-02 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0834-03 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0834-04 WERE TESTED SEPARATED.

000004

[Signature]



Report No.: MX11-0834

Date : 2011-05-25

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-4	Chromium VI (Cr ⁶⁺) content	With reference to USEPA 3060, by EPA 7196	QHU2010-61p73	2011-05-13	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-20p22	2011-04-28	MARY	20,0
1 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-25	UBM	62,5
2 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-20p22	2011-04-28	MARY	20,0
2 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-25	UBM	83,33
3 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-20p22	2011-04-28	MARY	20,0
3 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-25	UBM	62,5
4 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-25	UBM	62,5

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	2,0
1 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	25,0
2 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	2,0
2 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	33,33
3 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	2,0
3 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	25,0
4 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	25,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	0,25
1 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	2,5
2 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	0,25
2 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	2,5
3 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	0,25
3 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	2,5
4 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	2,5

The samples MX11-0834-1 (base), 2 (base) ; 3 (base) for Lead were analyzed for EPA 7420, the method EPA 6010 presented spectral interference.

000005

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The results that appear in this report belong solely to (s) shows (s) analyzed (s).

1ª. Emisión Junio 2005, 1ª Revisión Junio 26, 2009.

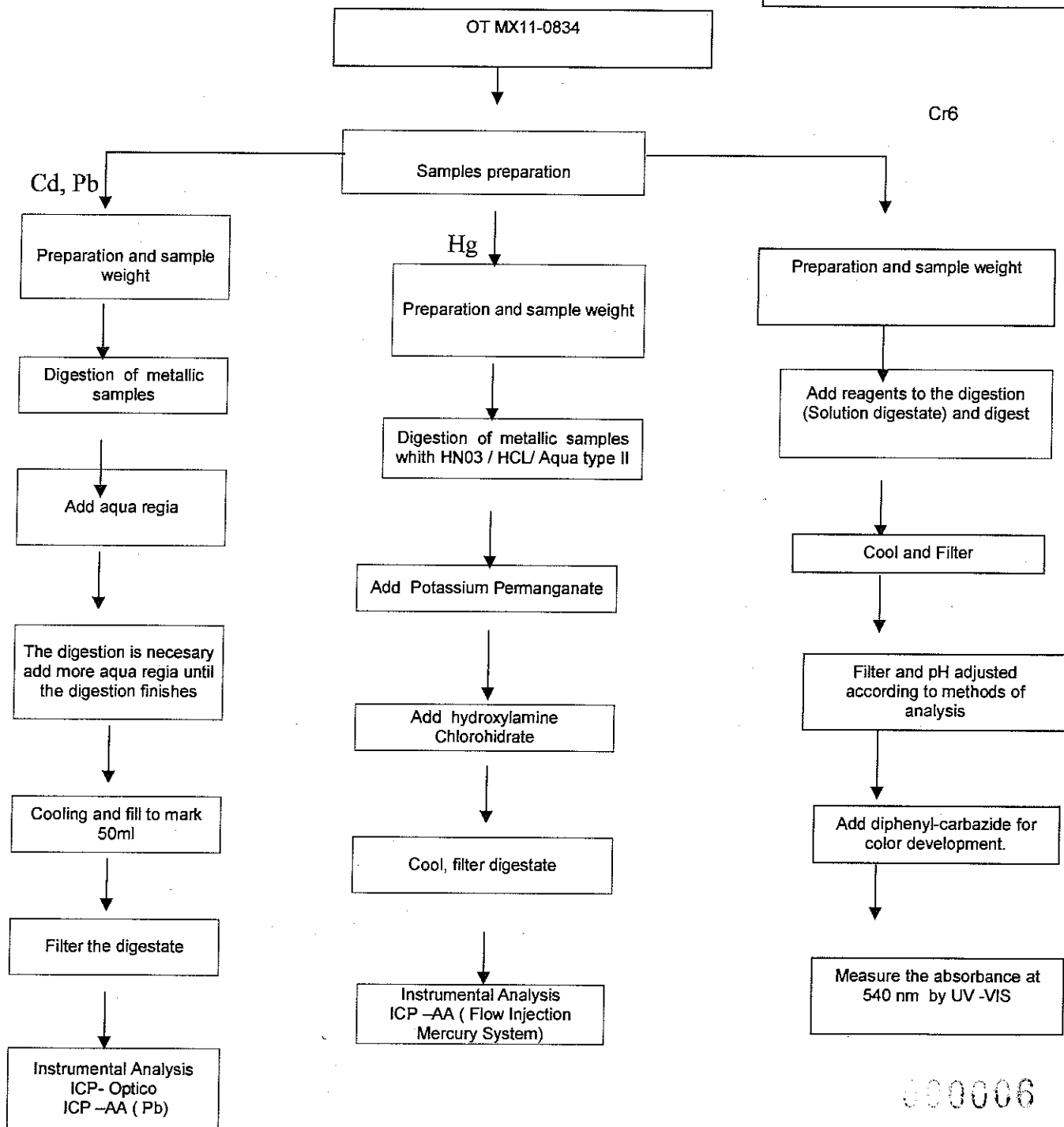
ILTA/003/GENS-FB

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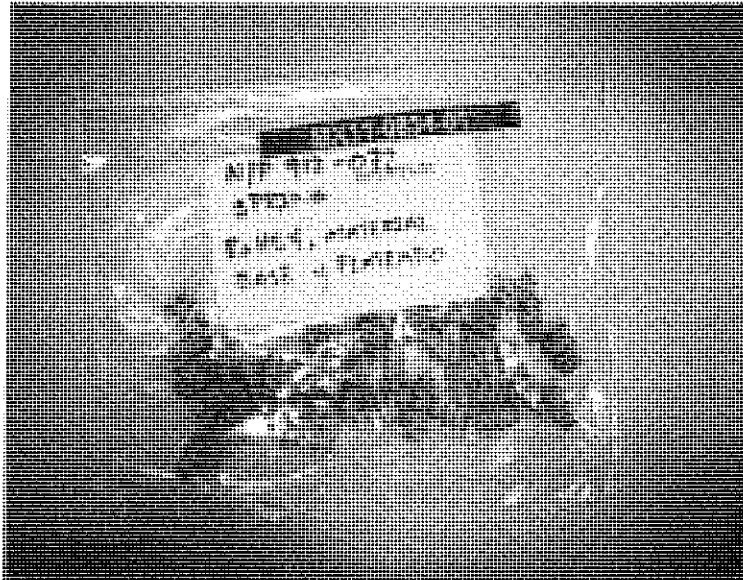
END REPORT

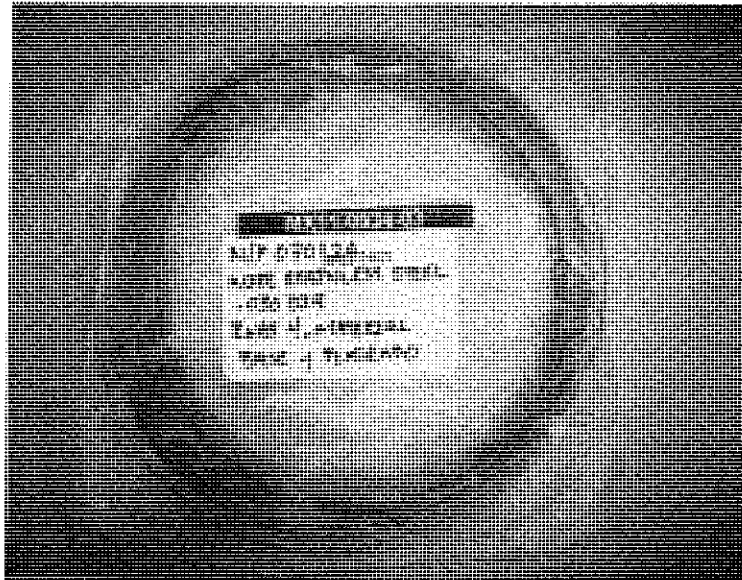
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000008

TEST REPORT**APPLICANT**

Littelfuse, S.A. de C.V.
Poder Judicial No. 1005, Col. Burócratas, Piedras Negras, Coahuila, C.P. 26020
Berenice Casas / Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description NP

Item No.	6) P/N: 883-050 Serie: 345 Int.
	7) P/N: 882-426 Serie: 345 Int.
	8) P/N: 883-048 Serie: 345 Int.
	9) P/N: 883-055 Serie: 345 Int.
	10) P/N: 912-296 Serie: 345 Int.
	11) P/N: 070126 Serie: 345 Int.
	12) P/N: 912-297 Serie: 345 Int.
	13) P/N: 875-524 Serie: 345 Int.
	14) P/N: 875-521 Serie: 345 Int.
	15) P/N: 891-023 Serie: 345 Int.
	22) P/N: 057256 Serie: 345 Int.
	23) P/N: 057838 Serie: 345 Int.
	26) P/N: 3453RF1-1 Serie: 345 Int.
	27) P/N: 057277 Serie: 345 Int.
	30) P/N: 901-134 Serie: 345

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2010-04-20

Testing period 2010-04-29 to 2009-05-22

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
6	P/N: 883-050 Serie: 345 Int.	Pass See Result summary	---	---
7	P/N: 882-426 Serie: 345 Int.	Pass See Result summary	---	---
8	P/N: 883-048 Serie: 345 Int.	Pass See Result summary	---	---
9	P/N: 883-055 Serie: 345 Int.	Pass See Result summary	---	---
10	P/N: 912-296 Serie: 345 Int.	Pass See Result summary	---	---
11	P/N: 070126 Serie: 345 Int.	Pass See Result summary	---	---
12	P/N: 912-297 Serie: 345 Int.	Pass See Result summary	---	---
13	P/N: 875-524 Serie: 345 Int.	Pass See Result summary	---	---
14	P/N: 875-521 Serie: 345 Int.	Pass See Result summary	---	---
15	P/N: 891-023 Serie: 345 Int.	Pass See Result summary	---	---
22	P/N: 057256 Serie: 345 Int.	Pass See Result summary	---	---
23	P/N: 057838 Serie: 345 Int.	Pass See Result summary	---	---
26	P/N: 3453RF1-1 Serie: 345 Int.	Pass See Result summary	---	---
27	P/N: 057277 Serie: 345 Int.	Pass See Result summary	---	---
30	P/N: 901-134 Serie: 345	Pass See Result summary	---	---

TEST CONDUCTED

One (1) group of submitted samples said to be :

6) P/N: 883-050 Serie: 345 Int.

7) P/N: 882-426 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(6)	(7)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	13,86	29,46	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

8) P/N: 883-048 Serie: 345 Int.

9) P/N: 883-055 Serie: 345 Int.

10) P/N: 912-296 Serie: 345 Int.

EST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(8)	(9)	(10)	
Cadmium (Cd) content	ND	ND	39,706	0,01% (100 ppm)
Lead (Pb) content	14,91	14,09	23,431	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

- 11) P/N: 070126 Serie: 345 Int.
- 12) P/N: 912-297 Serie: 345 Int.
- 13) P/N: 875-524 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(11)	(12)	(13)	
Cadmium (Cd) content	41,600	39,210	ND	0,01% (100 ppm)
Lead (Pb) content	25,500	22,193	36,80	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

- 14) P/N: 875-521 Serie: 345 Int.
- 15) P/N: 891-023 Serie: 345 Int.

EST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(14)	(15)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	50,11	27,73	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

22) P/N: 057256 Serie: 345 Int.

23) P/N: 057838 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(22)	(23)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	---

TEST CONDUCTED

One (1) group of submitted samples said to be :

26) P/N: 3453RF1-1 Serie: 345 Int.

27) P/N: 057277 Serie: 345 Int.

30) P/N: 901-134 Serie: 345

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(26)	(27)	(30)	
Cadmium (Cd) content	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	ND	---

ppm = parts per million based on dry weight of sample.

$\mu\text{g}/\text{cm}^2$ = microgram per square centimeter.

mg/kg WITH 50cm² = milligram per kilogram with 50 square centimeter.

< = less than.

ND = Not detected.

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω .

Prepared and checked by :

For Intertek


Laboratory Manager



The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-6 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-7 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-8 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-9 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-10 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-11 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-12 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-13 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-14 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-15 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-22 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-23 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-26 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-27 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-30 WERE TESTED TOGETHER.

Test method :

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	Chromium (Cr ⁶⁺) content	With reference to USEPA 3060, by EPA 7196	BEQ160p5b	2010-05-01,03	MELA,JLHS	2,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004440-P CL	2010-04-28 2010-05-22	CONT	50*
	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004440-P CL	2010-04-28 2010-05-22	CONT	50*

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
6	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,000
7	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,902
8	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,102
9	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,000
10	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	9,800
11	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	10,000
12	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	8,77
13	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,808
14	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,717
15	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,464
22	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
23	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	5,0
26	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
27	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
30	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
6	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
7	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,961
8	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,041
9	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
10	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,961
11	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
12	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,754
13	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,923
14	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,887
15	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,786
22	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
23	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	2,000
26	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
27	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
30	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961

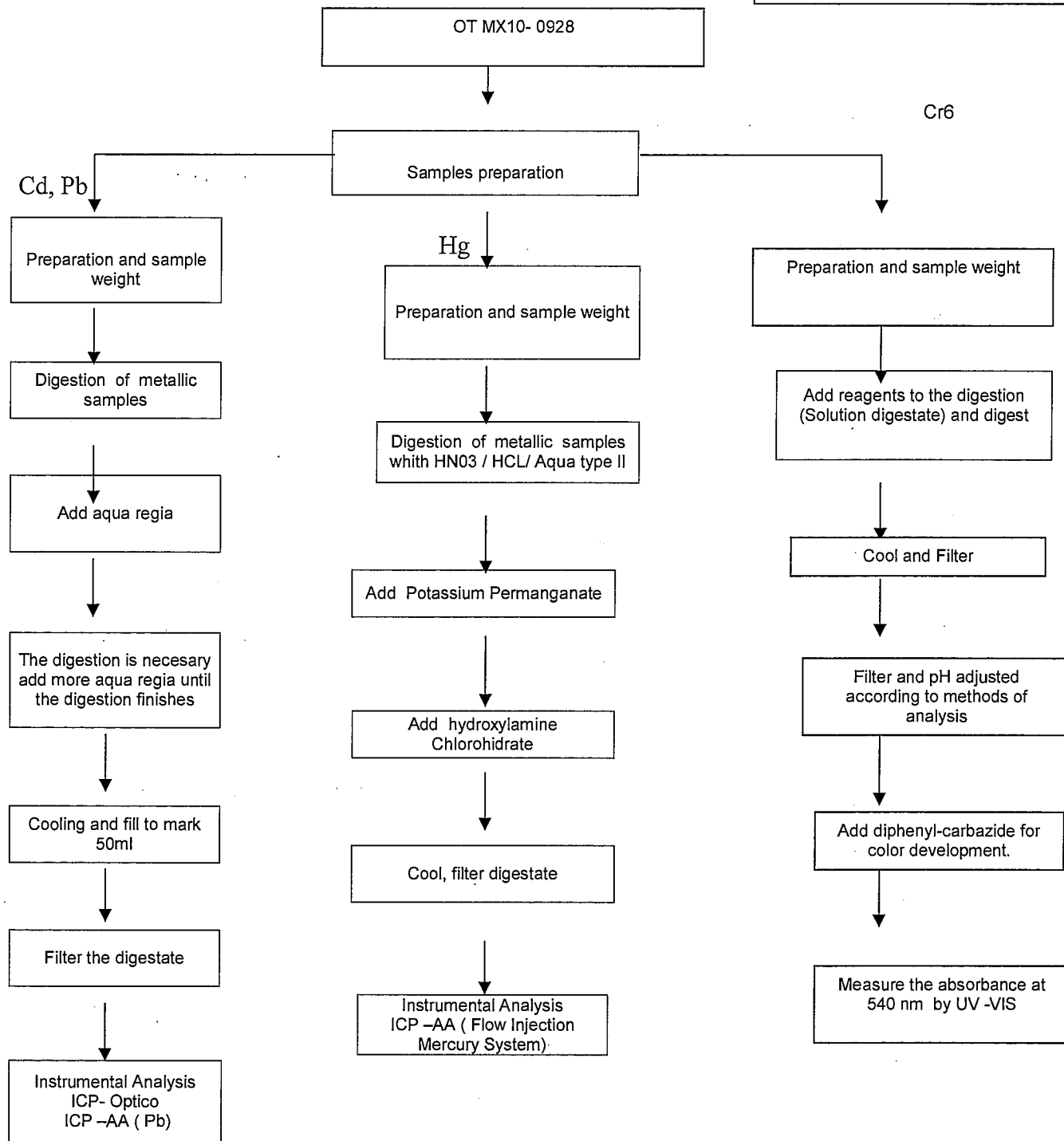
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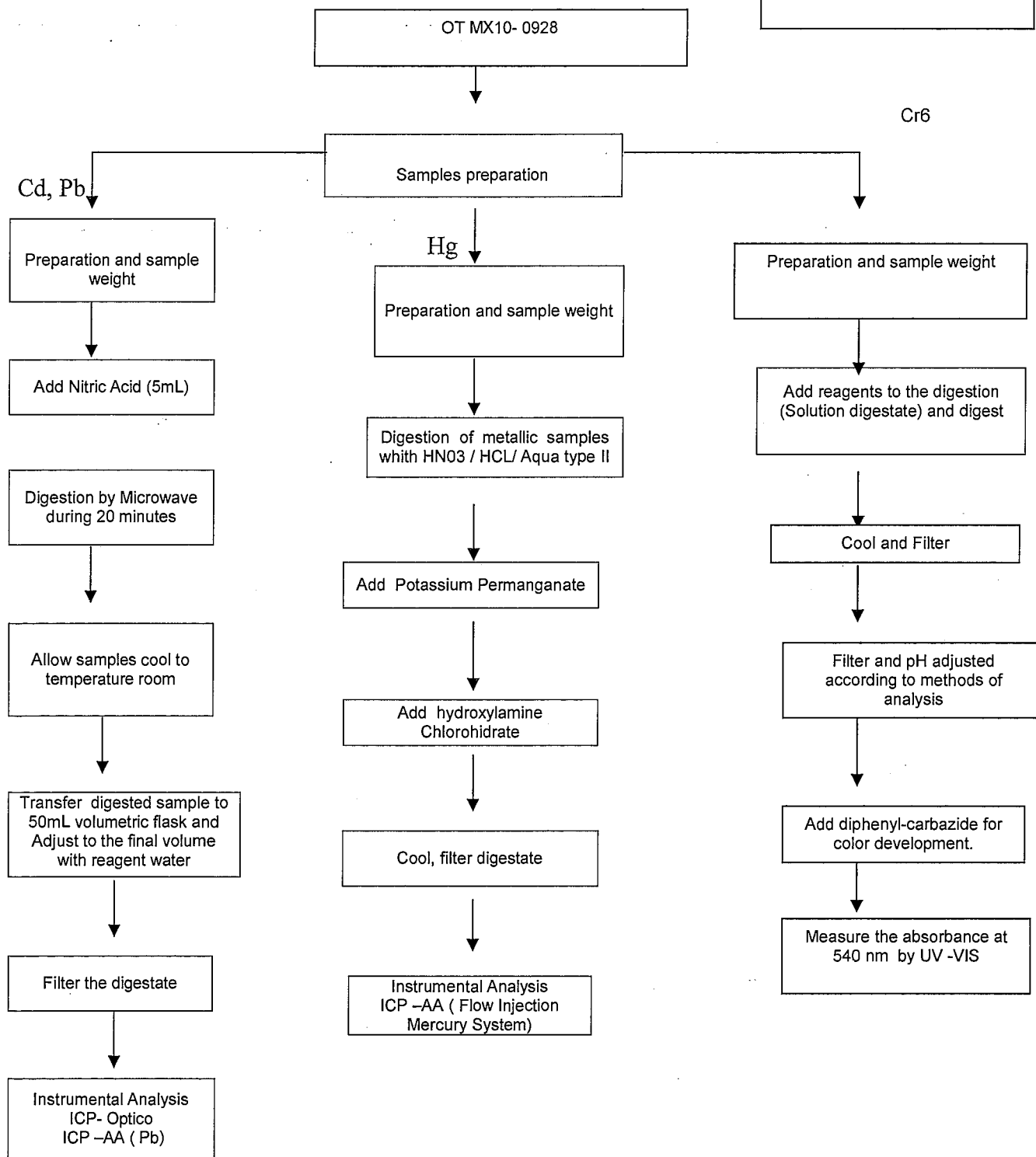
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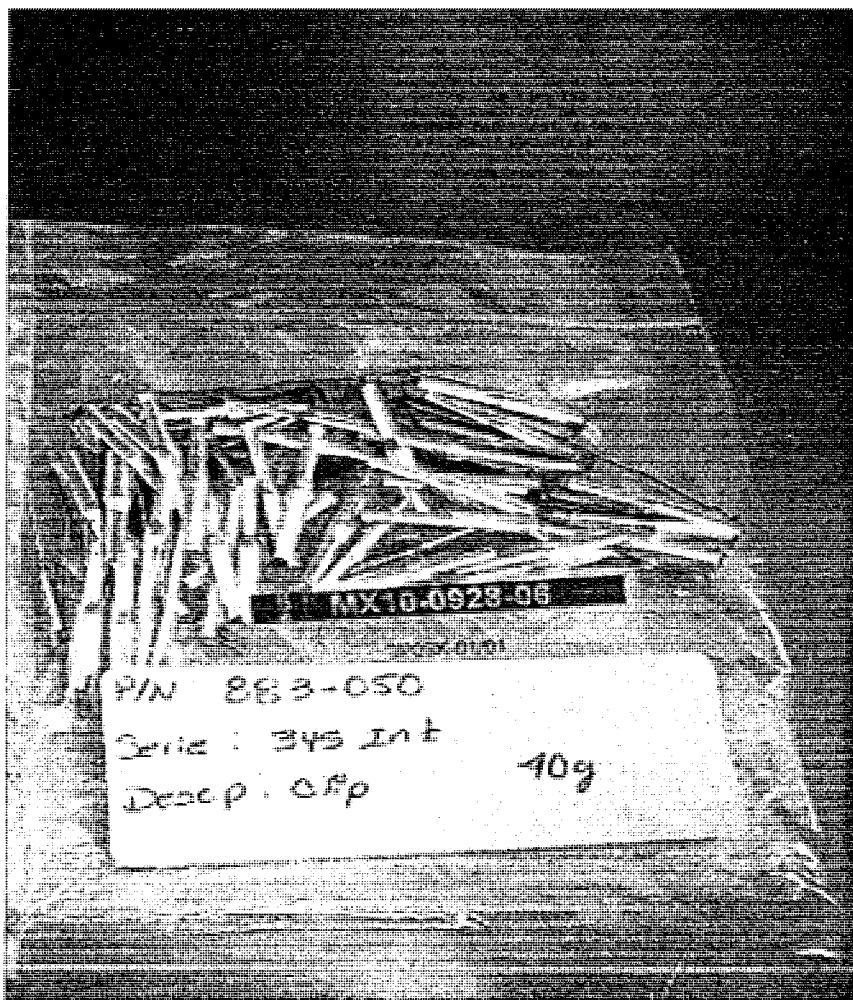
Bldv. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863

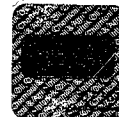
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<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
6	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
7	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,082
8	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
9	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0758
10	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
11	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
12	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
13	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0806
14	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
15	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0758
22	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0746
23	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0806
26	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0781
27	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0833
30	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0833





MX10-0928-06



RESULTS REPORT

INTERTEK TESTING SERVICES

DE MEXICO SA DE CV

LABORATORIO CD. DE MEXICO

DELIVER TO:

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38,
Piedras Negras, Coahuila

ATTENTION: Ing. Mario Falcón



TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description Serie 345 / Serie 345 int. y 245

1) N/P 057275

Item No.

2) N/P 057259 / Series 345 int. y 245

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2010-09-13

Testing period 2010-09-16 to 2010-09-28

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1	N/P 057275	Pass See Result summary	---	---
2	N/P 057259 / Series 345 int. y 245	Pass See Result summary	---	---



TEST CONDUCTED

Samples:

- 1) N/P 057275
- 2) N/P 057259 / Series 345 int. y 245

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(1)	(2)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	56,22	20,59	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBES)			
Total	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	—
Dibromobiphenyl (DiBB)	ND	ND	—
Tribromobiphenyl (TriBB)	ND	ND	—
Tetrabromobiphenyl (TetraBB)	ND	ND	—
Pentabromobiphenyl (PentaBB)	ND	ND	—
Hexabromobiphenyl (HexaBB)	ND	ND	—
Heptabromobiphenyl (HeptaBB)	ND	ND	—
Octabromobiphenyl (OctaBB)	ND	ND	—
Nonabromobiphenyl (NonaBB)	ND	ND	—
Decabromobiphenyl (DecaBB)	ND	ND	—
POLYBROMINATED DIPHENYL ETHERS (PBDES) Total	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	---

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Test method :

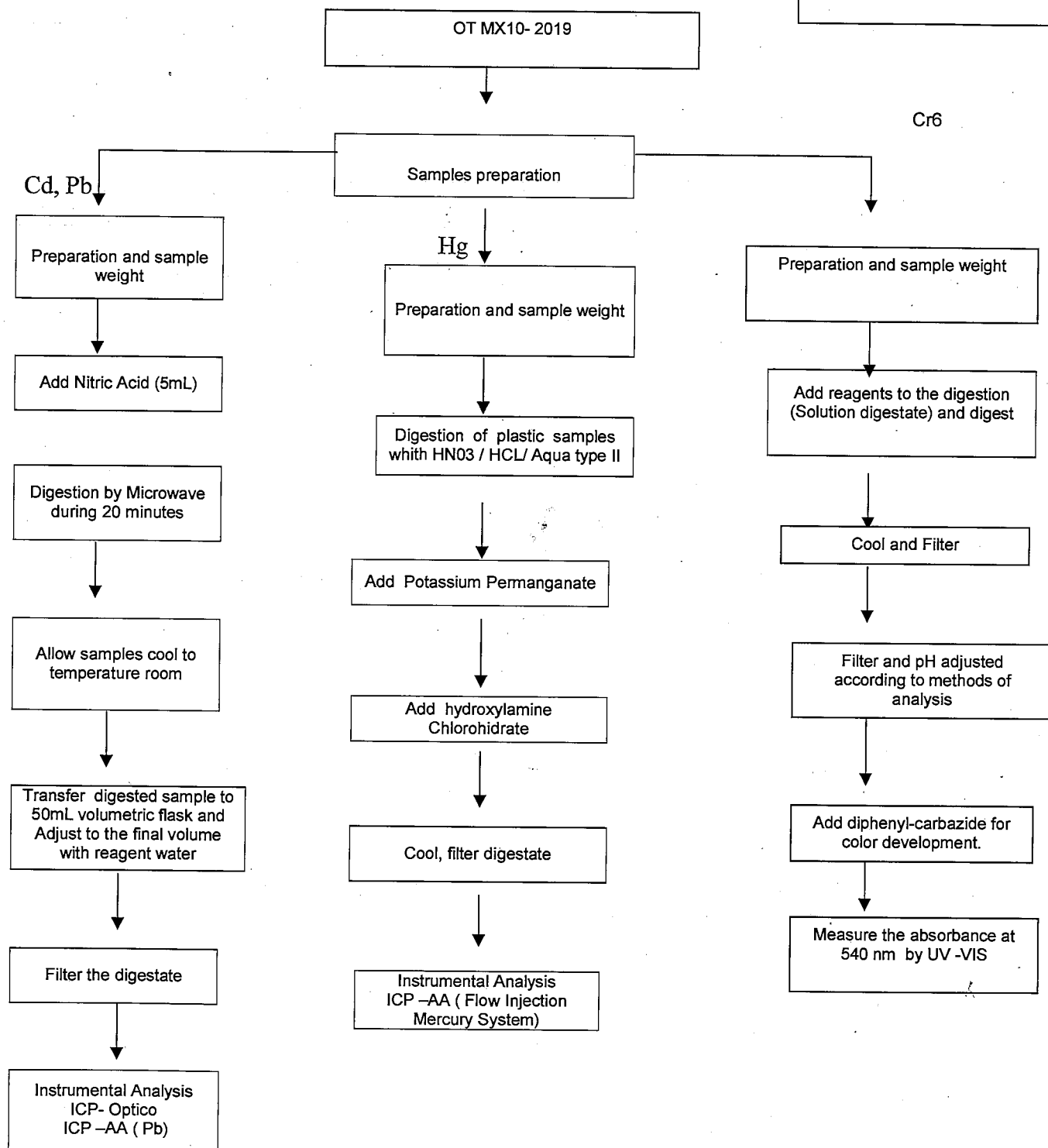
Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-2	Chromium VI (Cr ⁶⁺) content	With reference to USEPA 3060, by EPA 7196	QHU2010-45p3	2010-09-21	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-2	POLYBROMINATE D BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004734-P CL	2010-09-16,28	▲ CONT	50,0
1-2	POLYBROMINATE D DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004734-P CL	2010-09-16,28	▲ CONT	50,0

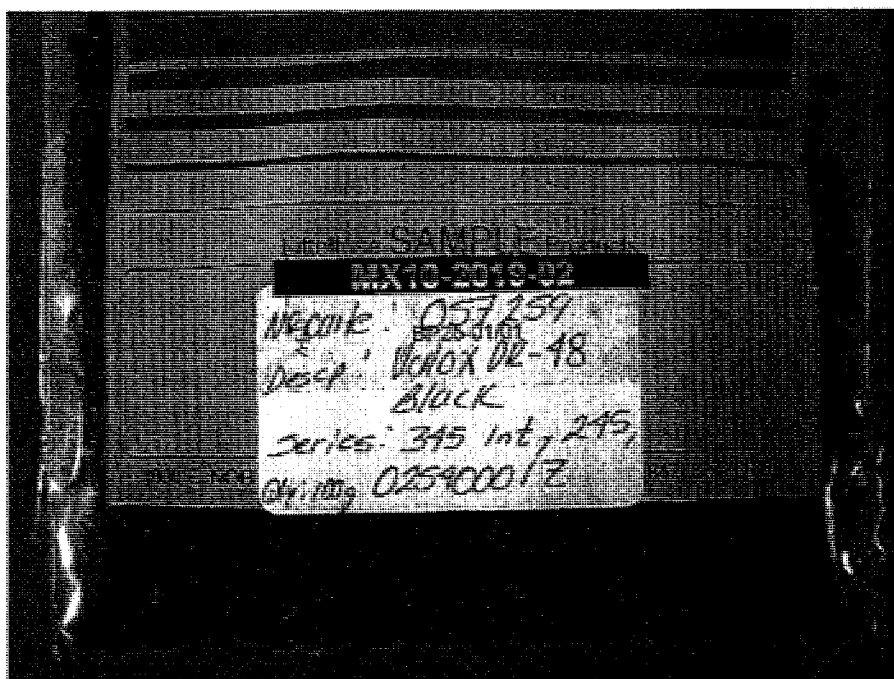
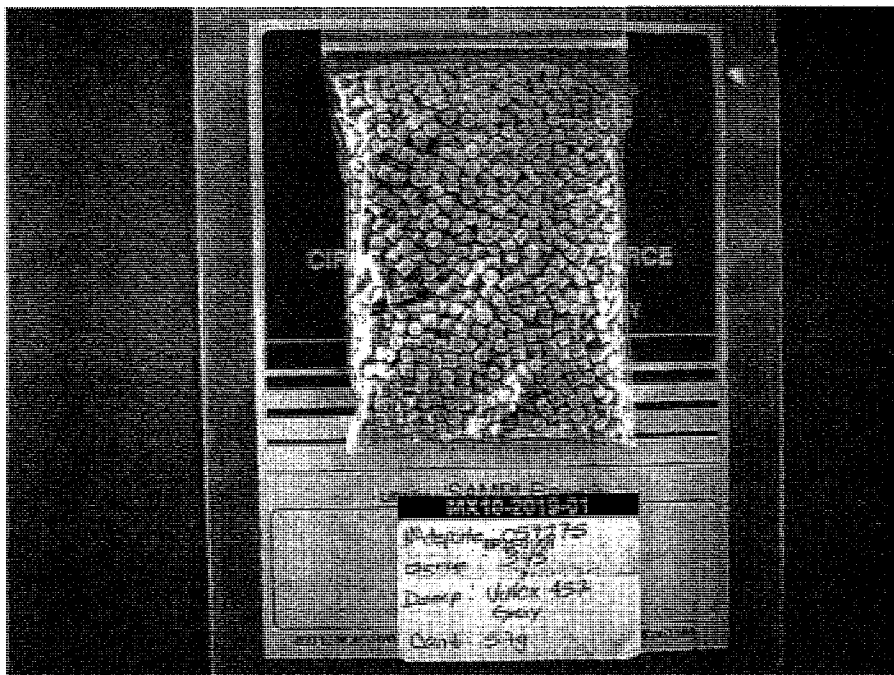
Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0
2	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0
2	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250
2	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250



MX10-2019



RESULTS REPORT

INTERTEK TESTING SERVICES

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LABORATORIO CD. DE MEXICO

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Piedras Negras, Coahuila

ATTENTION: Ing. María Valdez

000001

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.

Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila

Ing. María Valdez

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description

NP

1) N/P 057249

2) N/P 057357

3) N/P 057883

Item No.

4) N/P 057838

5) N/P 057259

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2011-03-02

Testing period 2011-04-14 to 2011-04-27

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1	N/P 057249	Pass See Result summary	---	---
2	N/P 057357	Pass See Result summary	---	---
3	N/P 057883	Pass See Result summary	---	---
4	N/P 057838	Pass See Result summary	---	---
5	N/P 057259	Pass See Result summary	---	---

000002

TEST CONDUCTED

Samples:

- 1) N/P 057249
- 2) N/P 057357
- 3) N/P 057883

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit
	(1)	(2)	(3)	
Fluor (F) content	ND	ND	ND	30 ppm
Chlorine (Cl) content	ND	ND	ND	30 ppm
Bromine (Br) content	45751	ND	ND	30 ppm
Iodine (I) content	ND	ND	ND	30 ppm
POLYBROMINATED BIPHENYLS (PBBs)				
Total	ND	ND	ND	0.1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)				
Total	ND	ND	ND	0.1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	ND	---

000003

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TEST CONDUCTED

Samples:

4) N/P 057838

5) N/P 057259

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(4)	(5)	
Fluor (F) content	ND	ND	30 ppm
Chlorine (Cl) content	1 777,0	ND	30 ppm
Bromine (Br) content	6 045	37 238	30 ppm
Iodine (I) content	ND	ND	30 ppm

ppm = parts per million based on dry weight of sample.

µg/cm² = microgram per square centimeter.

mg/kg WITH 50cm² = milligram per kilogram with 50 square centimeter.

< = less than.

ND = Not detected.

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω.

Prepared and checked by :

For Intertek

Ira Lopez
Card de area

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

000004

AL

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO
ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF
Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE
BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS
THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0593-01 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0593-02 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0593-03 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0593-04 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX11-0593-05 WERE TESTED TOGETHER.

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-5	Fluor	With reference to EN 14582:2007by calorimetric bomb method with oxygen and determined by ion chromatography	2011-000238-PCL	2011-04-27	▲ CONT	30
1-5	Chlorine	With reference to EN 14582:2007by calorimetric bomb method with oxygen and determined by ion chromatography	2011-000238-PCL	2011-04-27	▲ CONT	30
1-5	Bromine	With reference to EN 14582:2007by calorimetric bomb method with oxygen and determined by ion chromatography	2011-000238-PCL	2011-04-27	▲ CONT	30
1-5	Iodine	With reference to EN 14582:2007by calorimetric bomb method with oxygen and determined by ion chromatography	2011-000238-PCL	2011-04-27	▲ CONT	30

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-3	POLYBROMINATE D BIPHENYLS (PBBs)	Determined by GC-MSD	2011-000238-PCL	2011-04-27	▲ CONT	50,0
1-3	POLYBROMINATE D DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2011-000238-PCL	2011-04-27	▲ CONT	50,0

000005

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RESULTS REPORT
INTERTEK TESTING SERVICES
DE MEXICO SA DE CV
LABORATORIO CD. DE MEXICO

DELIVER TO:

Littelfuse, S.A. de C.V.

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Piedras Negras, Coahuila

ATTENTION: Ing. Mario Falcón / Ing. Manuel Berain

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TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.

Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila

Ing. Mario Falcón / Ing. Manuel Berain

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description

Serie 340

- 1) N.P. 340267-11
- 2) N.P. 342024-4
- 3) N.P. 345603-2
- 4) N.P. 903-097
- 5) N.P. 345603-1
- 6) N.P. 901-156
- 7) N.P. 901-185
- 8) N.P. 901-126
- 9) N.P. 875-461
- 10) N.P. 891-026
- 11) N.P. 912-286
- 12) N.P. 340231-3
- 13) N.P. 340231-2
- 14) N.P. 340231-020
- 15) N.P. 883-026
- 16) N.P. 882-140
- 17) N.P. 905-016
- 18) N.P. 340231-5
- 19) N.P. 904-228-001
- 20) N.P. 903-012
- 21) N.P. 425205
- 22) N.P. 087232

Item No.

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2010-07-26

Testing period 2010-07-29 to 2010-08-12

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

000002



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J205

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1	N.P. 340267-11	Pass See Result summary	---	---
2	N.P. 342024-4	Pass See Result summary	---	---
3	N.P. 345603-2	Pass See Result summary	---	---
4	N.P. 903-097	Pass See Result summary	---	---
5	N.P. 345603-1	Pass See Result summary	---	---
6	N.P. 901-156	Pass See Result summary	---	---
7	N.P. 901-185	Pass See Result summary	---	---
8	N.P. 901-126	Pass See Result summary	---	---
9	N.P. 875-461	Pass See Result summary	---	---
10	N.P. 891-026	Pass See Result summary	---	---
11	N.P. 912-286	Pass See Result summary	---	---
12	N.P. 340231-3	Pass See Result summary	---	---
13	N.P. 340231-2	Fail See Result summary	Lead	23 550,0
14	N.P. 340231-020	Fail See Result summary	Lead	22 140,0
15	N.P. 883-026	Pass See Result summary	---	---
16	N.P. 882-140	Pass See Result summary	---	---
17	N.P. 905-016	Pass See Result summary	---	---
18	N.P. 340231-5	Fail See Result summary	Lead	24 490,0
19	N.P. 904-228-001	Pass See Result summary	---	---
20	N.P. 903-012	Pass See Result summary	---	---
21	N.P. 425205	Pass See Result summary	---	---
22	N.P. 087232	Pass See Result summary	---	---

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000003



TEST CONDUCTED

Sample :

- 1) N.P. 340267-11
- 2) N.P. 342024-4
- 3) N.P. 345603-2
- 4) N.P. 903-097

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(1)	(2)	(3)	(4)	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	7,886	11,77	32,89	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	ND	ND	---

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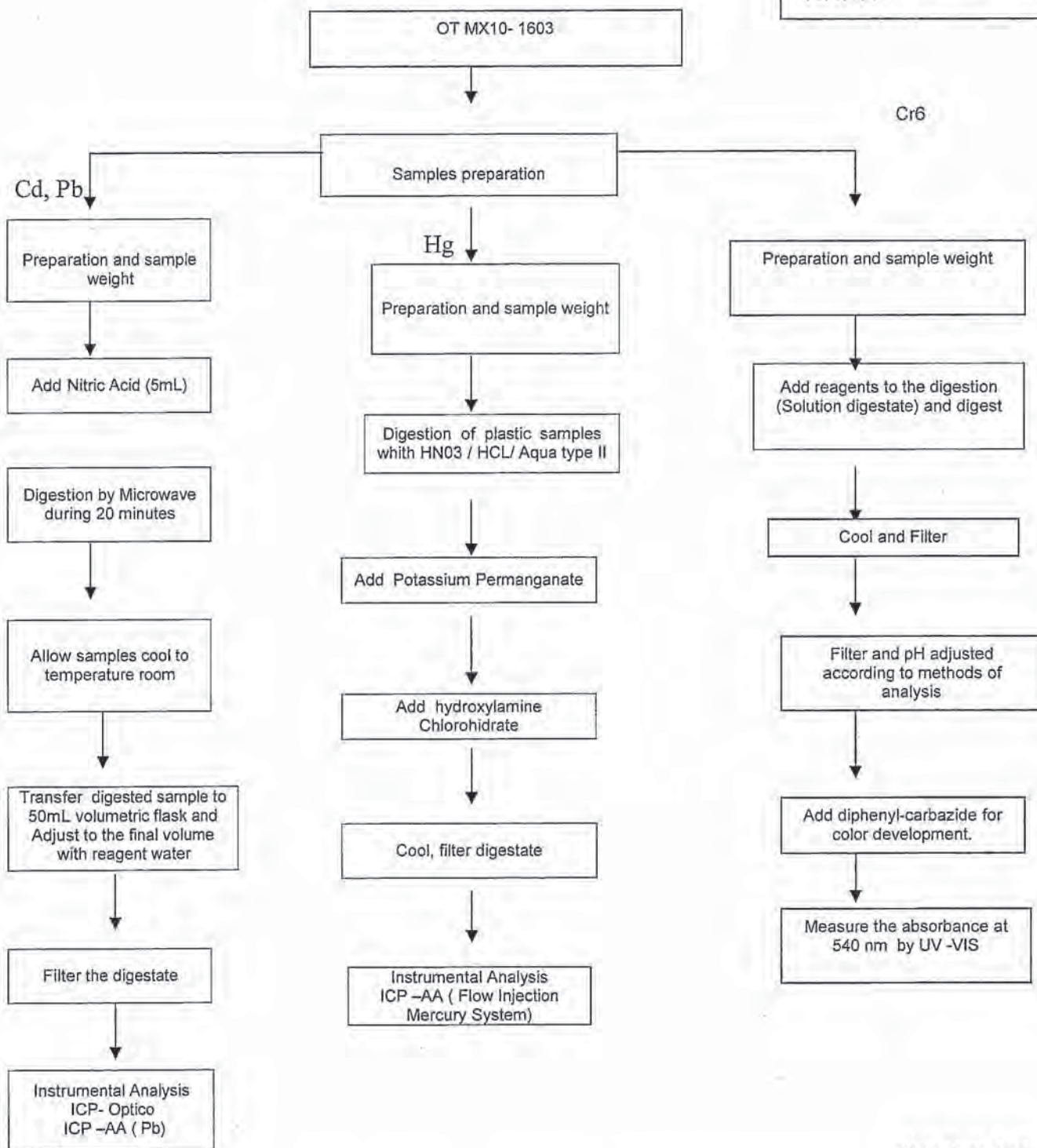
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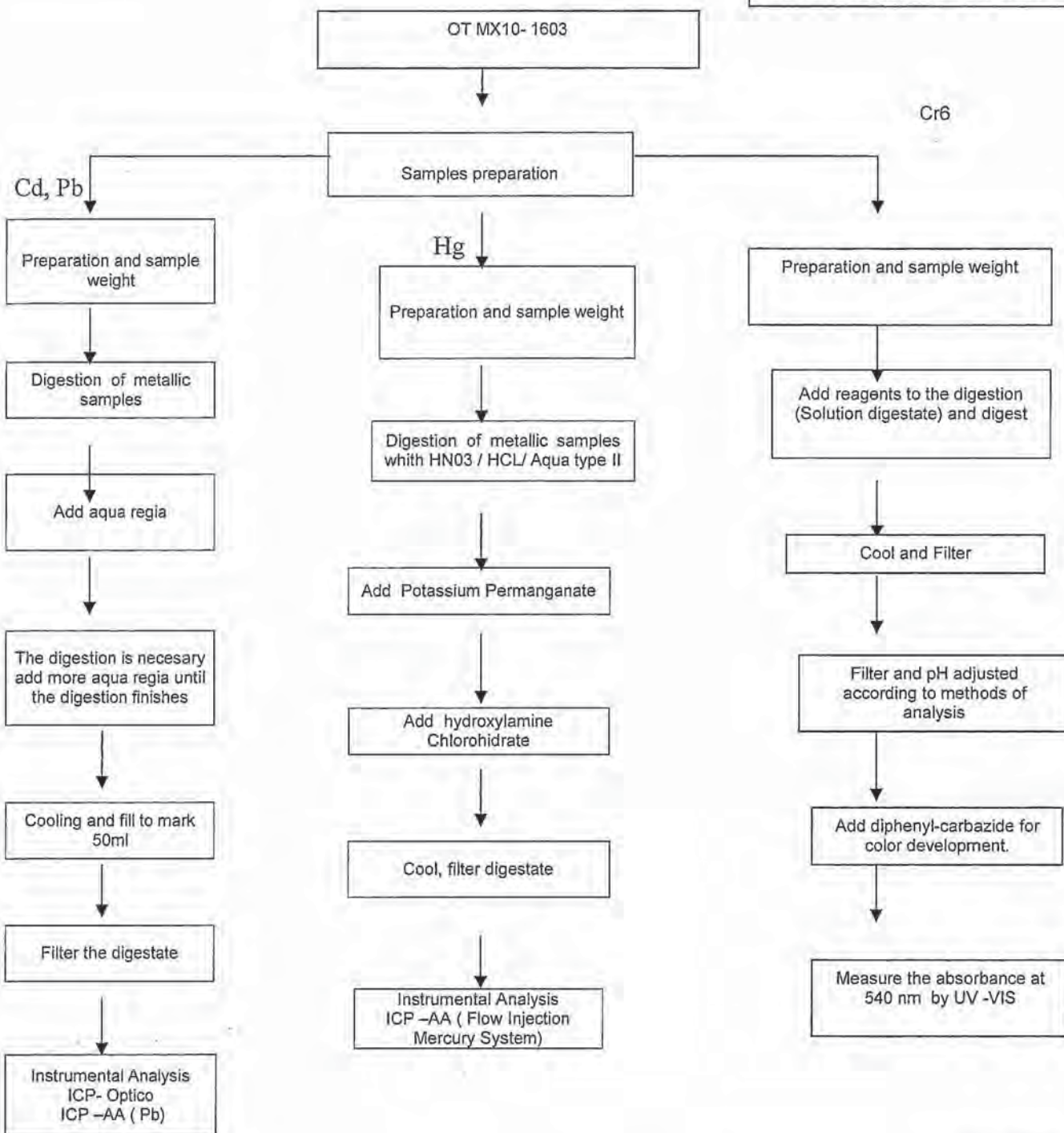
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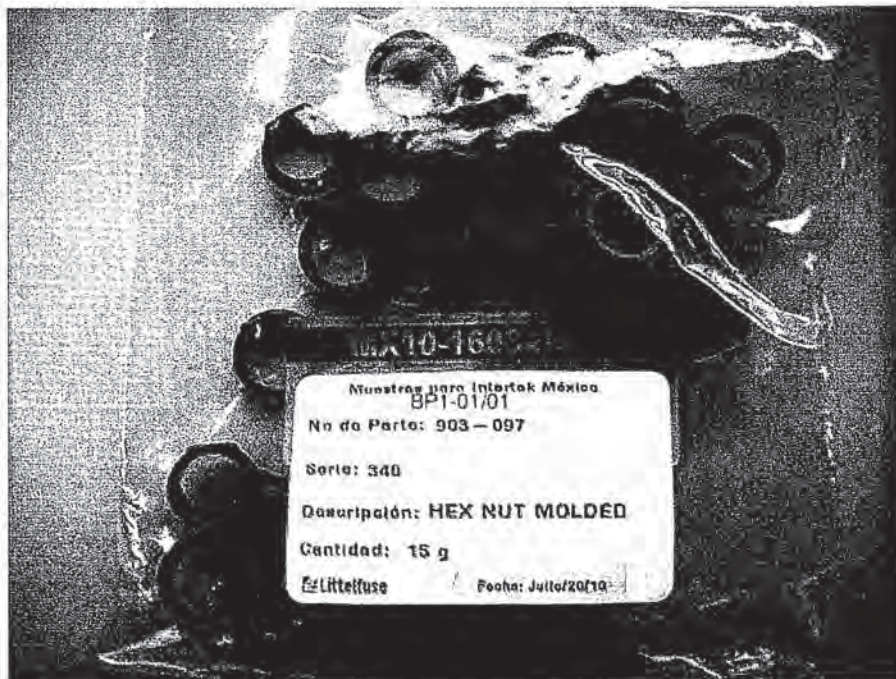
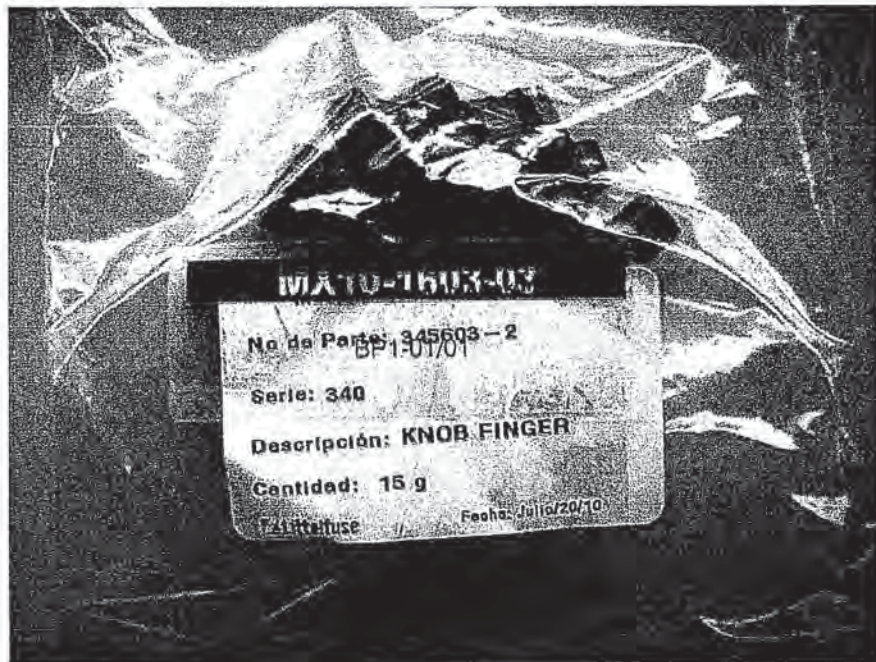
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MX10-1603



000017

