



ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: Omni Block Fuseholder

Product #: 520xxx Series

Issue Date: July 6, 2010

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes. In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by:

A handwritten signature in black ink, appearing to read 'Jenny Douglasen', written over a horizontal line.

<Global EHS Coordinator>

(1) Parts, sub-materials and unit parts

This document covers the Omni Block Fuseholder RoHS-Compliant series products manufactured by Littelfuse, Inc.

< Raw Materials Used

Please see Table 1

(2) The ICP data on all measurable substances

Please see appropriate pages as identified in Table 1

Remarks : .



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	057256	Base	3-16
2	057838	Base	3-16
3	111xxx	Clip	17-23

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

Wm. Lopez
and
and
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

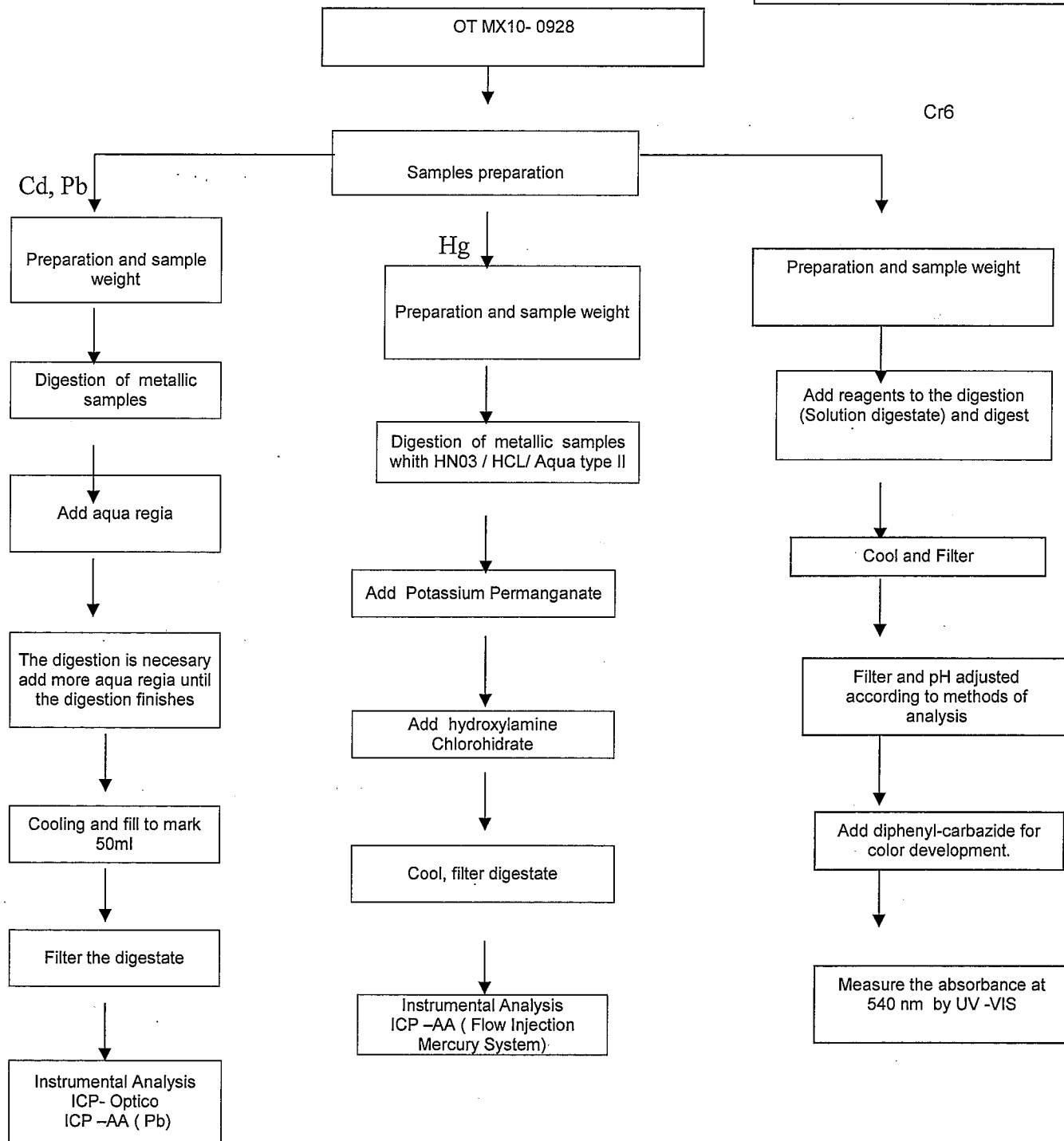
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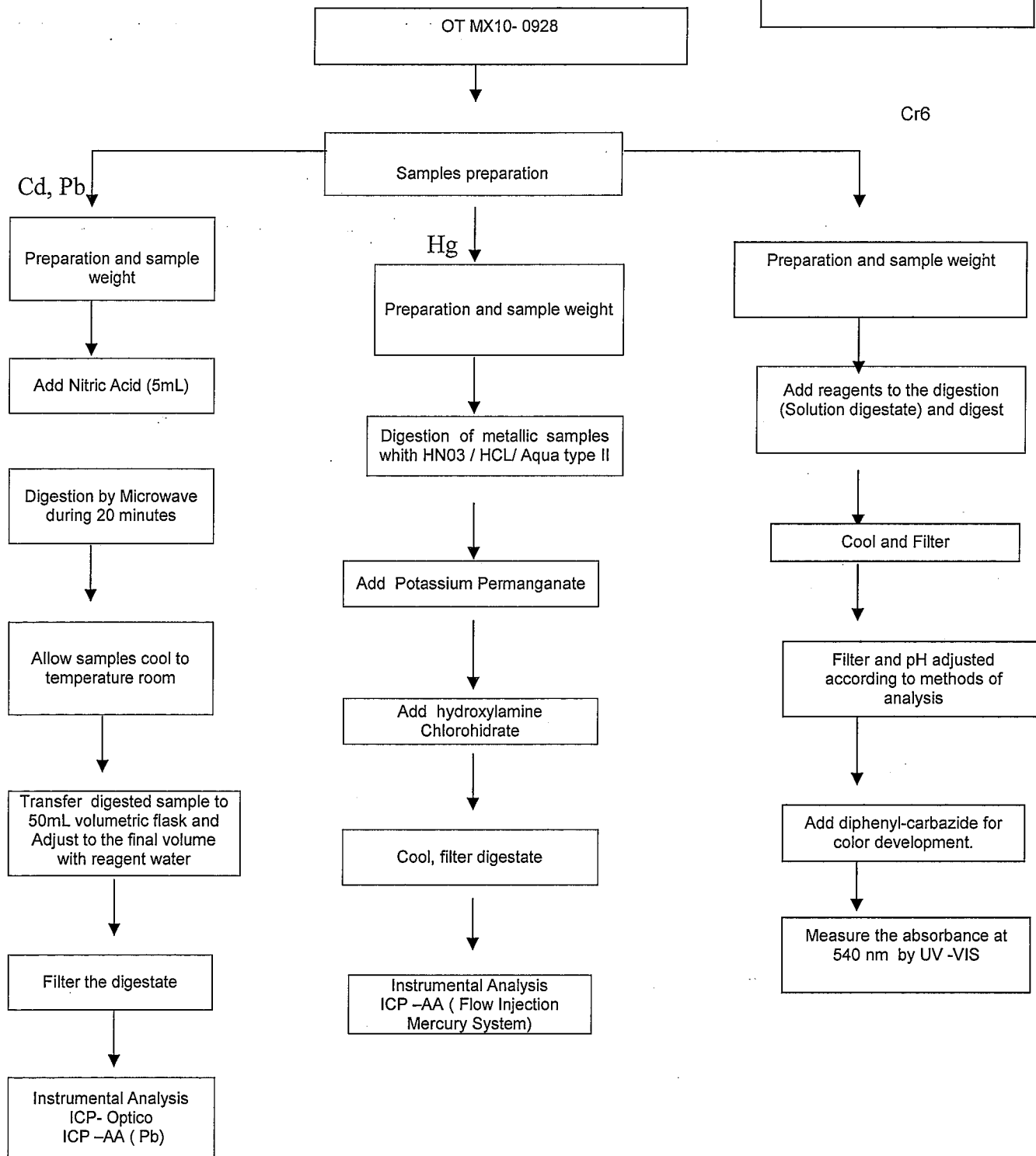
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Bldv. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863

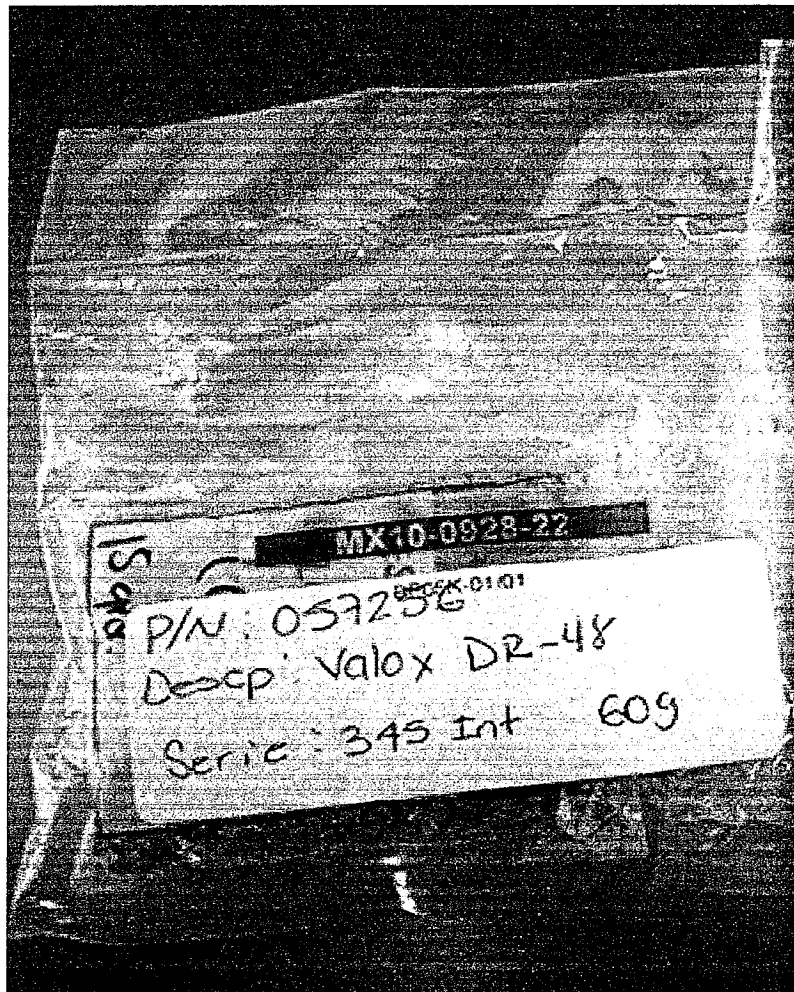
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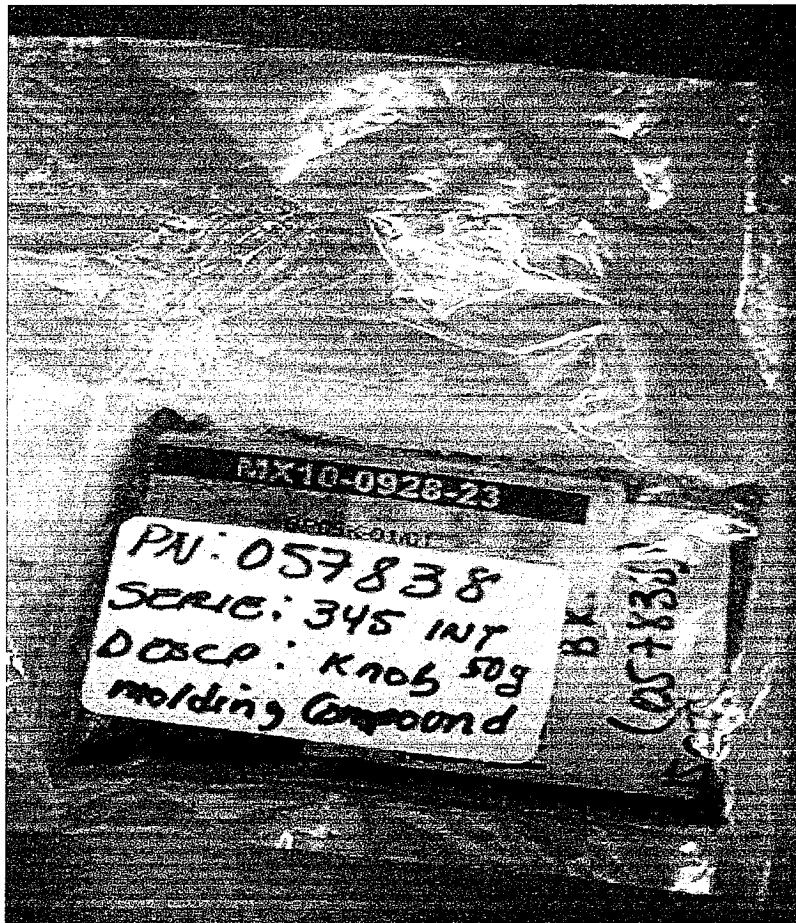
<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
6	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
7	Mercury (Hg) content	With reference 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





MX10-0928-22



MX10-0928-23



Report No.: MX10-0726-MOD – Serie 111

Date : 2010-05-07

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 Mtz. 1800, Col. Magisterio Secc. 38, Piedras
Negras, Coahuila, C.P. 26070

ATTENTION: Ing. Mario Alberto Falcón

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

ILTA/003/GENS-F8

Intertek Testing Services de México, S.A. de C.V.

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

www.intertek.com

001



Report No.: MX10-0726-MOD – Serie 111

Date : 2010-05-07

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.

Bldv. Fausto Z Mtz. 1800, Col. Magisterio Secc. 38, Piedras Negras, Coahuila, C.P. 26070

Ing. Mario Alberto Falcón

SAMPLE DESCRIPTION

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

Sample Description NP

Item No. 13) Serie 111 clip 01110510Z
14) Serie 111 clip 01110506Z
15) Seire 111 clip 01110505Z
16) Serie 111 clip 01110501Z

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2010-03-25

Testing period 2010-03-29 to 2010-04-23

TEST CONDUCTED

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

CONCLUSION

Testing item	Conclusion	Failed component	Failed result
Serie 111 clip 01110510Z	Pass See Result summary	---	---
Serie 111 clip 01110506Z	Pass See Result summary	---	---
Serie 111 clip 01110505Z	Pass See Result summary	---	---
Serie 111 clip 01110501Z	Pass See Result summary	---	---

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

ILTA/003/GENS-F8

Intertek Testing Services de México, S.A. de C.V.

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002

TEST CONDUCTED

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

- 13) Serie 111 clip 01110510Z
- 14) Serie 111 clip 01110506Z
- 15) Serie 111 clip 01110505Z
- 16) Serie 111 clip 01110501Z

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(13)	(14)	(15)	(16)	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Lead (Pb) content	66,48	21,67	ND	86,47	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

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

Laboratory Manager

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



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003

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 MX10-0726-13 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-14 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-15 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-16 WERE TESTED TOGETHER.

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Test method :

<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control</u> <u>Batch:</u>	<u>Analysis</u> <u>Date:</u>	<u>Analyzed</u> <u>By:</u>	<u>Reporting limit</u> <u>ppm</u>
Chromium VI (Cr ⁶⁺) content	With reference to USEPA 3060, by EPA 7196	QHU2009-3p63	2010-04-06	MELA,JLHS, MTCM	2,0

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control</u> <u>Batch:</u>	<u>Analysis</u> <u>Date:</u>	<u>Analyzed</u> <u>By:</u>	<u>Reporting limit</u> <u>ppm</u>
13	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	8,77
14	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	8,06
15	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	8,33
16	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	8,77

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control</u> <u>Batch:</u>	<u>Analysis</u> <u>Date:</u>	<u>Analyzed</u> <u>By:</u>	<u>Reporting limit</u> <u>ppm</u>
13	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	1,754
14	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	1,612
15	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	1,670
16	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	1,754

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control</u> <u>Batch:</u>	<u>Analysis</u> <u>Date:</u>	<u>Analyzed</u> <u>By:</u>	<u>Reporting limit</u> <u>ppm</u>
13	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0833
14	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0820
15	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0806
16	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0820

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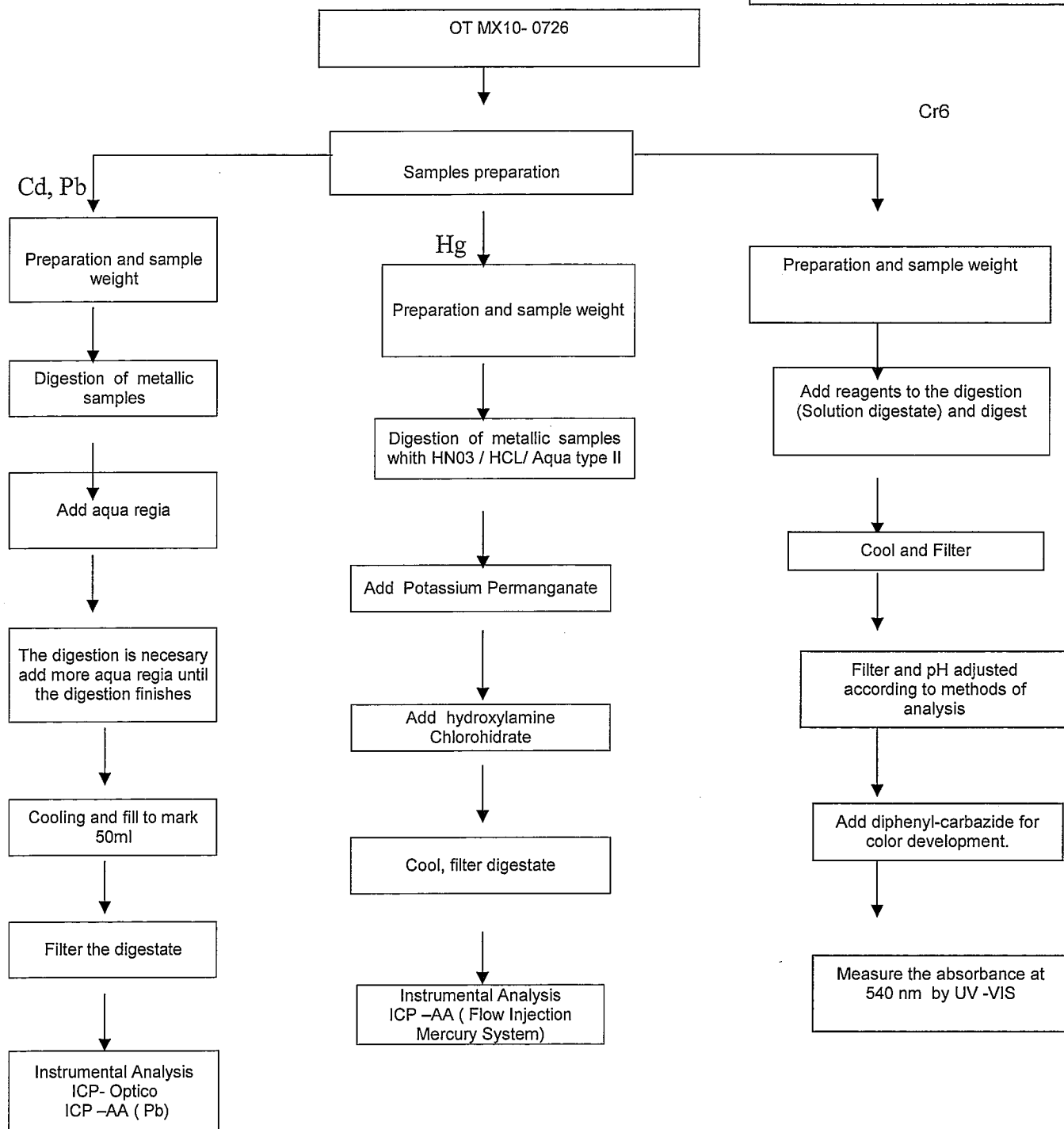
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MX10-0726-16

