



## ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: In Line Fuse Holder

Product #: 155 000U Series

Issue Date: July 7, 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 that reads 'Jenny Singlasan'.

<Global EHS Coordinator >

(1) Parts, sub-materials and unit parts

This document covers the 155 000U Automotive In Line Fuse Holder 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**

<b>Total Parts</b>	<b>Raw Material Part Number</b>	<b>Raw Material Description</b>	<b>Page(s)</b>
1	155004-1	Body	3-13
2	904-216-001	Rivet	3-13
3	912-067	Spring	3-13



Report No.: MX10-0726-MOD – Serie 150  
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.

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

Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec  
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001



Report No.: MX10-0726-MOD – Serie 150  
Date : 2010-05-07

## TEST REPORT

### APPLICANT

Littelfuse, S.A. de C.V.  
Blvd. 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
	30) Serie 150 Body 155004-1
	31) Serie 150 Knob 155004-4
	32) Serie 150 Body 868-062-000
	35) Serie 150 Spring 912-065
Item No.	36) Serie 150 Rivet 904-216-001
	37) Serie 150 Insert 155 004-3
	38) Serie 150 Spring 912-060
	39) Serie 150 Spring 912-067

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

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**TEST CONDUCTED**

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

\*\*\*\*\*

**CONCLUSION**

Testing item	Conclusion	Failed component	Failed result
Serie 150 Body 155004-1	Pass See Result summary	---	---
Serie 150 Knob 155004-4	Pass See Result summary	---	---
Serie 150 Body 868-062-000	Pass See Result summary	---	---
Serie 150 Spring 912-065	Pass See Result summary	---	---
Serie 150 Rivet 904-216-001	Pass See Result summary	---	---
Serie 150 Insert 155 004-3	Pass See Result summary	---	---
Serie 150 Spring 912-060	Pass See Result summary	---	---
Serie 150 Spring 912-067	Pass See Result summary	---	---

\*\*\*\*\*

**TEST CONDUCTED**

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

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- 31) Serie 150 Knob 155004-4
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### TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(30)	(31)	(32)	(35)	
Cadmium (Cd) content	ND	ND	ND	50,22	0,01% (100 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Lead (Pb) content	13,50	ND	ND	14,62	0,1% (1000 ppm)
Chromium (VI) (Cr <sup>6+</sup> )	ND	ND	ND	ND	0,1% (1000 ppm)

TESTING ITEM	Ω RESULT (ppm)				Limit
	(36)	(37)	(38)	(39)	
Cadmium (Cd) content	ND	53,69	51,61	54,06	0,01% (100 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Lead (Pb) content	39,31	7,851	13,86	11,77	0,1% (1000 ppm)
Chromium (VI) (Cr <sup>6+</sup> )	ND	ND	ND	ND	0,1% (1000 ppm)

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

μg/cm<sup>2</sup> = microgram per square centimeter.

mg/kg WITH 50cm<sup>2</sup> = milligram per kilogram with 50 square centimeter.

&lt; = 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*  
*[Signature]*  
COORD. de área

Laboratory Manager



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

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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 MX10-0726-30 WERE TESTED TOGETHER

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF  
TESTED COMPONENTS OF THE SAMPLE MX10-0726-31 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF  
TESTED COMPONENTS OF THE SAMPLE MX10-0726-32 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF  
TESTED COMPONENTS OF THE SAMPLE MX10-0726-35 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF  
TESTED COMPONENTS OF THE SAMPLE MX10-0726-36 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF  
TESTED COMPONENTS OF THE SAMPLE MX10-0726-37 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF  
TESTED COMPONENTS OF THE SAMPLE MX10-0726-38 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF  
TESTED COMPONENTS OF THE SAMPLE MX10-0726-39 WERE TESTED TOGETHER.

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**Test method :**

<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>
Chromium VI (Cr <sup>6+</sup> ) 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 Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
30	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p33	2010-04-23	VLM	6,76
31	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p33	2010-04-23	VLM	10,20
32	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p33	2010-04-23	VLM	7,69
35	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p32	2010-04-23	VLM	4,27
36	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p32	2010-04-23	VLM	6,85
37	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p32	2010-04-23	VLM	2,16
38	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p32	2010-04-23	VLM	7,81
39	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p32	2010-04-23	VLM	13,16

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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>
30	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p33	2010-04-05	DCL,JMR	1,351
31	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p33	2010-04-05	DCL,JMR	2,041
32	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p33	2010-04-05	DCL,JMR	1,538
35	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	0,855
36	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	1,369
37	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	0,432
38	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	1,562
39	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	2,631

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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>
30	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p37	2010-04-01	UBM	0,0746
31	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p37	2010-04-01	UBM	0,0806
32	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p37	2010-04-01	UBM	0,0131
35	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0833
36	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0833
37	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0220
38	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0820
39	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0758

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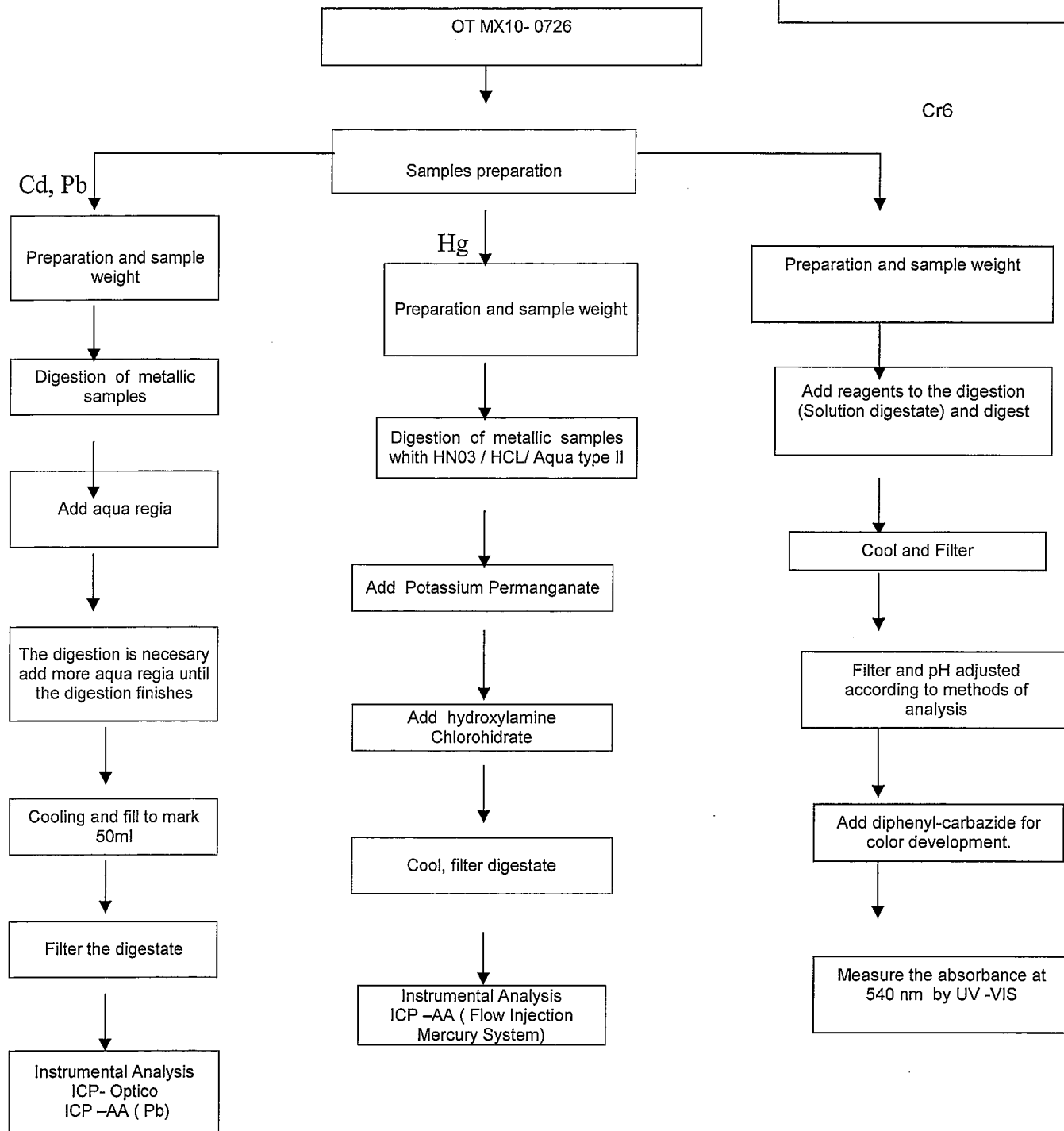
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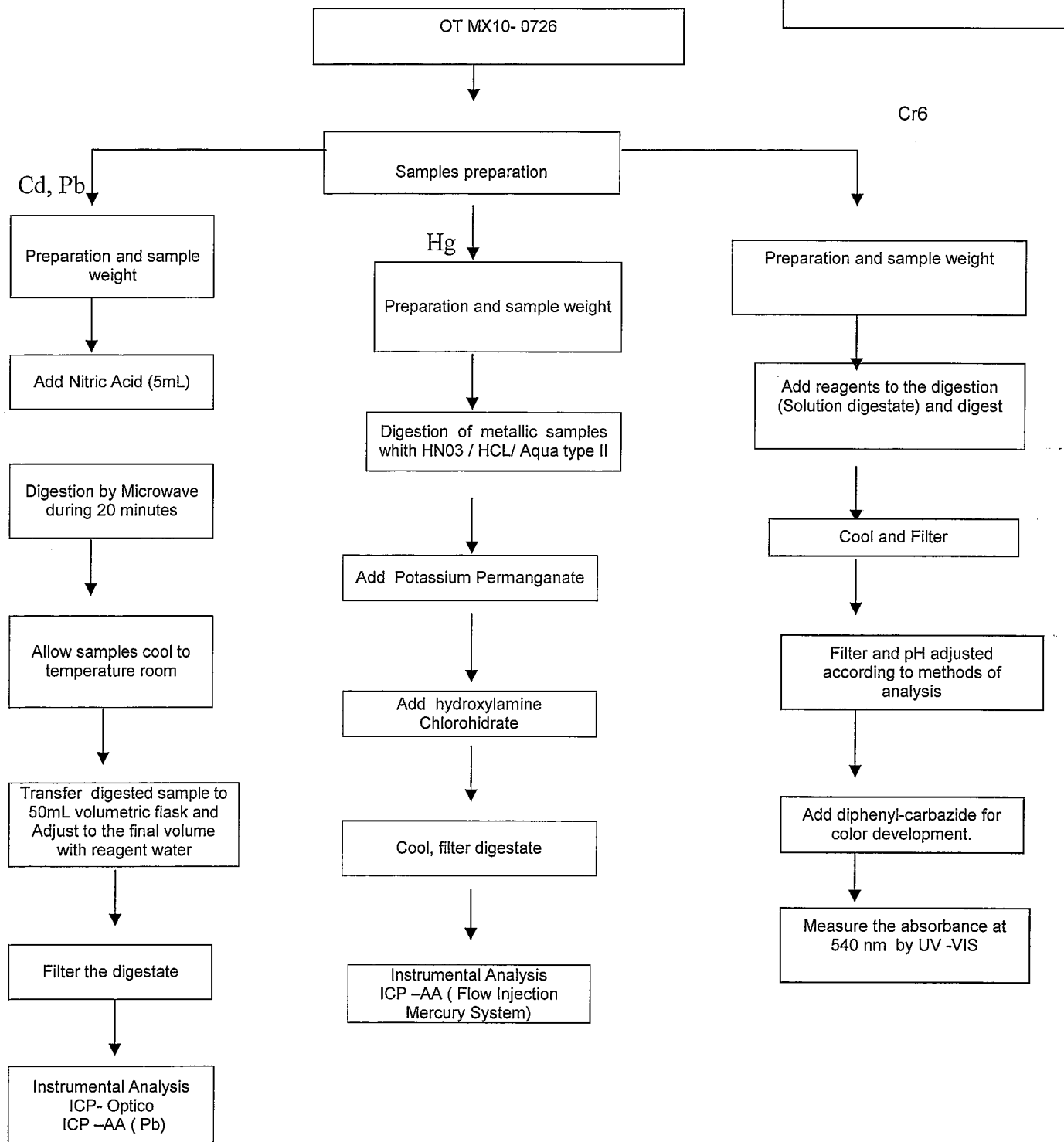
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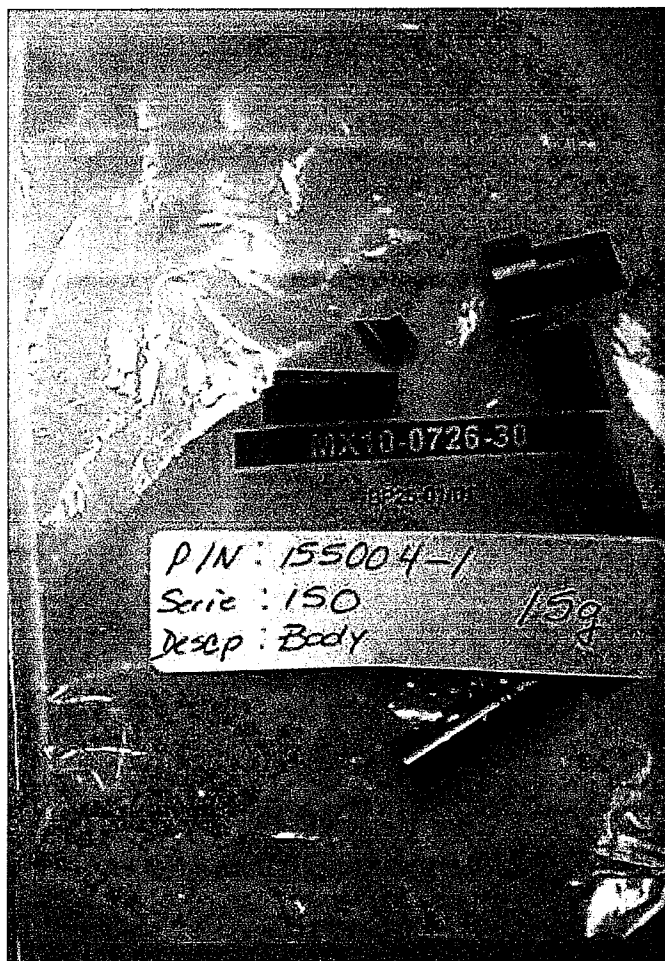
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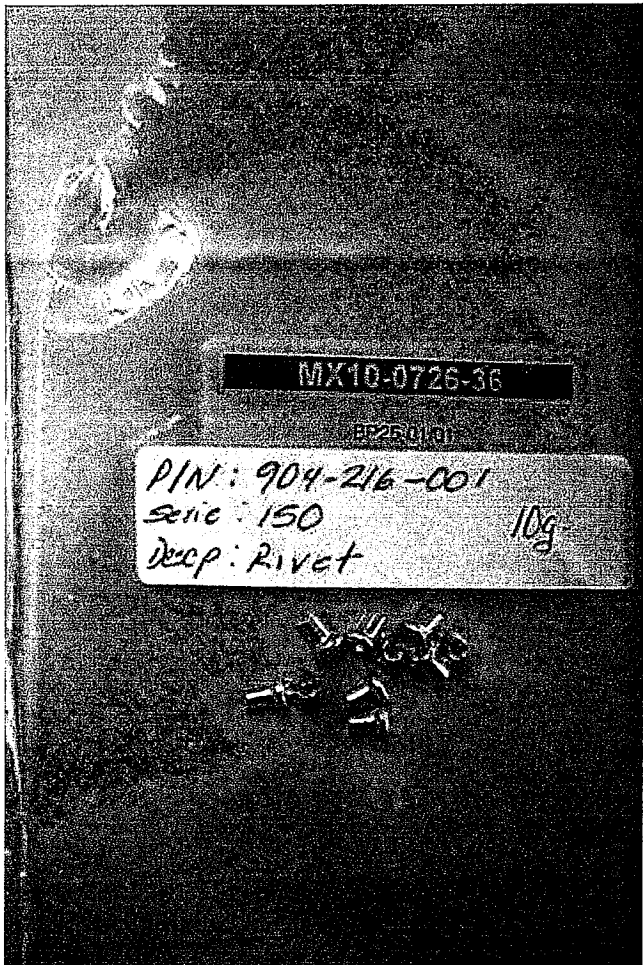




**MX10-0726-30**



**MX10-0726-36**



**MX10-0726-39**

