



# TEST REPORT

Lab No. : (6208)085-0241  
Date : March 28, 2008  
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**Applicant** : New Prismatic Enterprise Co., Ltd.  
9F., No.3, Jian Yi Rd., Chung Ho City, Taipei Hsien, Taiwan, R.O.C.

**Contact Person** : —

**Date of Submission** : March 25, 2008

**Performance Date** : March 25, 2008 to March 28, 2008

## Sample Description

**Product Name** : Photochromic Dye

**Item No.** : UV-OP 2014

**Buyer's Order No.** : —

**Sample Quantity** : —

## SUMMARY OF TEST RESULTS

TEST REQUESTED	REMARK
Heavy Metals Test / Flame Retardants Test - Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC	Test result in page 2

## REMARK

If there are questions or concerns on this report, please contact us with the following email box:

E-mail Box: [chemical.inquiry@tw.bureauveritas.com](mailto:chemical.inquiry@tw.bureauveritas.com)

PREPARED BY : Paul Huang

BUREAU VERITAS CONSUMER PRODUCTS  
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*Charles Hung*

DR. CHARLES HUNG  
ASSISTANT MANAGER  
ANALYTICAL DEPARTMENT

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### TEST RESULT

#### Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC

Tested item	
1.	Yellowish green powder

Compounds	Detection Limit (mg/kg)	Tested item (mg/kg)
		1
Lead [Pb]	2	N.D.
Cadmium [Cd]	2	N.D.
Mercury [Hg]	2	N.D.
Chromium (VI) [Cr(VI)]	2	N.D.
Polybrominated Biphenyls[PBB]		
Bromobiphenyls	5	N.D.
Dibromobiphenyls	5	N.D.
Tribromobiphenyls	5	N.D.
Tetrabromobiphenyls	5	N.D.
Pentabromobiphenyls	5	N.D.
Hexabromobiphenyls	5	N.D.
Heptabromobiphenyls	5	N.D.
Octabromobiphenyls	5	N.D.
Nonabromobiphenyls	5	N.D.
Decabromobiphenyl	5	N.D.
Sum of PBBs	5	N.D.
Polybrominated Diphenyl Ethers[PBDE]		
Bromodiphenyl ethers	5	N.D.
Dibromodiphenyl ethers	5	N.D.
Tribromodiphenyl ethers	5	N.D.
Tetrabromodiphenyl ethers	5	N.D.
Pentabromodiphenyl ethers	5	N.D.
Hexabromodiphenyl ethers	5	N.D.
Heptabromodiphenyl ethers	5	N.D.
Octabromodiphenyl ethers	5	N.D.
Nonabromodiphenyl ethers	5	N.D.
Decabromodiphenyl ether	5	N.D.
Sum of PBDEs	5	N.D.

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**Note:**

a. N.D. = Not Detected      — = Empty      mg/kg = ppm

**Test Method:**

Reference to IEC 62321.Ed.1 (TC111/95/CDV) : Electrotechnical Products - Determination of Levels of Six Regulated Substances.

i. Lead [Pb] and Cadmium [Cd]:

The sample is comminuted and digested with acid mixtures. The contents of Pb and Cd are determined with ICP-OES technique. (Reference: Section 9, page 49)

ii. Mercury [Hg]:

The sample is comminuted and digested with acid mixtures. The content of Hg is determined with ICP-OES technique. (Reference: Section 7, page 35)

iii. Chromium (VI) [Cr(VI)]:

The sample is comminuted and digested with alkaline mixtures. The content of Chromium VI is determined with UV-VIS spectroscopic technique. (Reference: Annex C, page 83)

iv. Polybrominated Biphenyls [PBB] and Polybrominated Diphenyl Ethers [PBDE]:

The sample is first scanned by infra red (IR) spectroscopy and appropriate solvent is used for extraction. The contents of PBBs and PBDEs are determined by GC-MS. (Reference: Annex A, page 63)

**Remark:**

1. The result relates only to the tested item. The report shall not be reproduced except full without the written approval of the testing laboratory. Parameters which are not covered by the lab's testing scope are subcontracted to laboratories with government approval. The accreditation relates to competences given in the accreditation certificate.

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## Photo of the Submitted Sample



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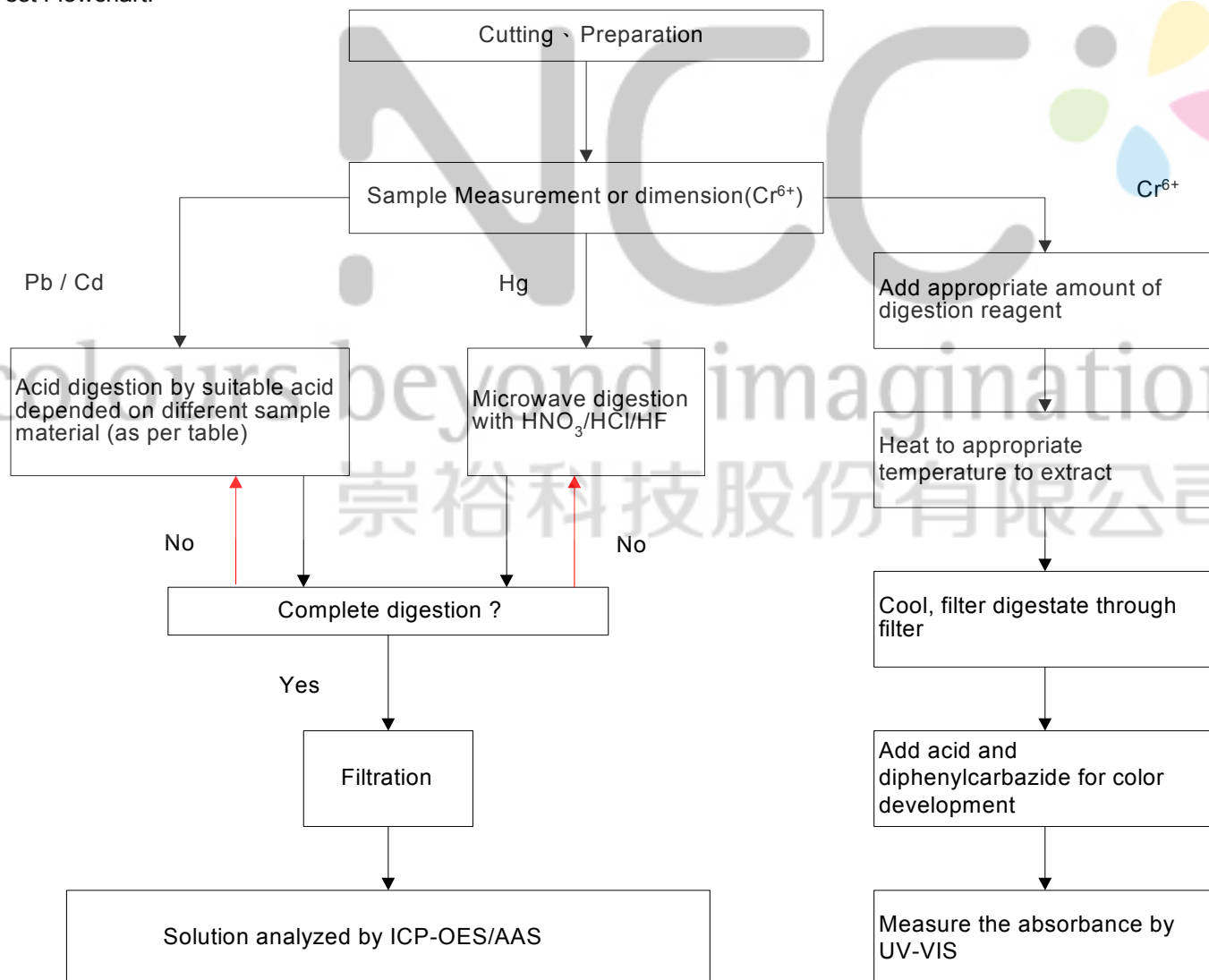
## APPENDIX

### 1. Determination of Heavy metal content — Pb, Cd, Hg, Cr(VI)

- I. Name of the person who made measurement: Jay Chou
- II. Name of the person in charge of measurement: Charles Hung

Sample Material	Digestion Acid
Glass, Ceramic, Electronic Components	HNO <sub>3</sub> , HF, HCl
Plastics	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl, HF
Others	Any acid to complete digestion

#### Test Flowchart:



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## APPENDIX

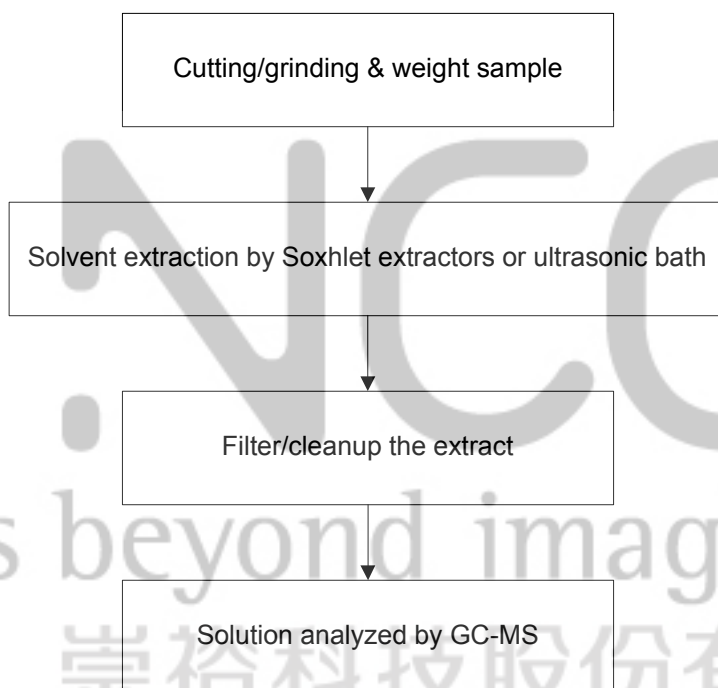
### 2. Determination of PBB & PBDE

III. Name of the person who made measurement: Judy Chen

IV. Name of the person in charge of measurement: Charles Hung

Sample Material	Solvent
Plastic, Polymers, Textile, Leather, Electronic Components etc.	Toluene etc.

Test Flowchart:



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