

**Test Report No. F690501/LF-CTSAYA07-05021**

Date: March 02, 2007

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To: PHOTRON CO., LTD
#521-18, Yanggi-ri
Kongdo-eup
Anseong-city
GYEONGGI-DO
Korea

The following merchandise was submitted and identified by the client as :

Product Name : LED LAMP
SGS File No. : AYA07-05021
Received Date : February 23, 2007
Test Performing Date : February 26, 2007
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)
Buyer(s) : SAMSUNG

Pluto Kim
Monet Jeong
Jully Oh
Jerry Jung
/Testing Person

SGS Testing Korea Co. Ltd.**Jeff Jang / Chemical Lab Mgr**



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Sample No. : AYA07-05021.001
Sample Description : LED LAMP
Item No./Part No. : PP465-8L621-EDBT
Comments : Materials are Si, Cu, Fe and etc.

Heavy Metals

| Test Items | Unit | Test Method | MDL | Results |
|-----------------------------|-------|---|-----|---------|
| Cadmium (Cd) | mg/kg | US EPA 3050B(1996), US EPA 6010B(1996), ICP | 0.5 | N.D. |
| Lead (Pb) | mg/kg | US EPA 3050B(1996), US EPA 6010B(1996), ICP | 5 | N.D. |
| Mercury (Hg) | mg/kg | US EPA 3052(1996), US EPA 6010B(1996), ICP | 2 | N.D. |
| Hexavalent Chromium (Cr VI) | mg/kg | US EPA 3060A(1996), US EPA 7196A(1992), UV | 1 | N.D. |

Flame Retardants-PBBs/PBDEs

| Test Items | Unit | Test Method | MDL | Results |
|--------------------------|-------|---------------------|-----|---------|
| Monobromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Dibromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Tribromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Tetrabromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Pentabromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Hexabromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Heptabromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Octabromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Nonabromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Decabromobiphenyl | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Monobromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Dibromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Tribromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Tetrabromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Pentabromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Hexabromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Heptabromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Octabromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Nonabromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |
| Decabromodiphenyl ether | mg/kg | US EPA 3540C, GC/MS | 5 | N.D. |

NOTE: (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) - = No regulation
(5) ** = Qualitative analysis (No Unit)
(6) Negative = Undetectable / Positive = Detectable

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Picture of Sample as Received:

Sample Color :

White



*** End ***

- NOTE:
- (1) N.D. = Not detected.($<$ MDL)
 - (2) ppm = mg/kg
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable