

广州呼研所医药科技有限公司
 Guangzhou Institute of Respiratory Disease Medicine Co.,Ltd
检测报告
 Report For Analysis

Date of sample Received: 20 March 2017

Testing Period: 22 April 2017 ~ 01 May 2017

| | | | |
|-------------------------------------|-----------------------------|--------------------|------------|
| Name of Sample | GERMAGIC Coating | Source of Sample | Submission |
| Applicant | Chiaphua Industries Limited | Client | Donald Lai |
| Date and Batch Number of Production | 28032017 | Quantity of Sample | 200ml |
| State of Sample | Good | Packing of Sample | --- |

Test Request

Selected tests as requested by client according to RoHS Directive 2015/863 Annex II; recasting 2011/65/EU.

Test Methods

1. With reference to IEC 62321:2008

- (1) Determination of Cadmium, Mercury and Lead refer to US EPA3052:1996 by ICP/AAS.
- (2) Determination of Hexavalent Chromium refer to US EPA 3060A & US EPA 7196A / IEC 62321 Ed.1.0. Annex B.
- (3) Determination of PBBs, PBDEs and Phthalate (DEHP , BBP , DBP 和 DIBP) by GC-MS.

Remark

- (1) 1 mg/kg = 1 ppm =0.0001%
- (2) MDL= Method Detection Limit



Test Results

(1) Cadmium(Cd), Mercury(Hg), Lead (Pb) and Hexavalent Chromium (CrVI)

| Test Items | Cadmium(Cd) [mg/kg] | Mercury(Hg) [mg/kg] | Lead (Pb) [mg/kg] | Hexavalent Chromium (CrVI) [mg/kg] |
|------------------|------------------------|------------------------|----------------------|--|
| RoHS Limit | 100 | 1000 | 1000 | 1000 |
| MDL | 2 | 5 | 5 | 5 |
| GERMAGIC Coating | <2 | <5 | <5 | <5 |

(2) PBBs, PBDEs

| Sample | GERMAGIC Coating |
|-------------------------|------------------|
| PBBs [mg/kg] | |
| RoHS Limit | 1000 |
| MDL | 5 |
| Monobromobiphenyl | <5 |
| Dibromobiphenyl | <5 |
| Tribromobiphenyl | <5 |
| Tetrabromobiphenyl | <5 |
| Pentabromobiphenyl | <5 |
| Hexabromobiphenyl | <5 |
| Heptabromobiphenyl | <5 |
| Octabromobiphenyl | <5 |
| Nonabromobiphenyl | <5 |
| Decabromobiphenyl | <5 |
| Sum of PBBs | <50 |
| PBDEs [mg/kg] | |
| RoHS Limit | 1000 |
| MDL | 5 |
| Monobromodiphenylether | <5 |
| Dibromodiphenylether | <5 |
| Tribromodiphenylether | <5 |
| Tetrabromodiphenylether | <5 |
| Pentabromodiphenylether | <5 |
| Hexabromodiphenylether | <5 |
| Heptabromodiphenylether | <5 |
| Octabromodiphenylether | <5 |
| Nonabromodiphenylether | <5 |
| Decabromodiphenylether | <5 |
| Sum of PBDEs | <50 |

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(3) Phthalate (DEHP , BBP , DBP 和 DIBP)

| Test Items | CAS.Number | MDL[%] | Content[%] | RoHS Limit[%] |
|-------------------------------------|------------|--------|------------|---------------|
| Benzylbutyl Phthalate(BBP) | 85-68-7 | 0.005 | <0.005 | 0.1 |
| Dibutyl Phthalate(DBP) | 84-74-2 | 0.005 | <0.005 | 0.1 |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | 0.005 | <0.005 | 0.1 |
| Diisobutyl Phthalate (DIBP) | 84-69-5 | 0.005 | <0.005 | 0.1 |

Conclusion

Based on the performed tests on submitted samples, the results of Cadmium, Mercury, Lead, Hexavalent Chromium, PBBs, PBDEs and Phthalate comply with the limits as set by RoHS Directive 2015/863 Annex II; recasting 2011/65/EU.



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