

# Test Report

No. F690101/LF-CTSAYHA19-08979

Issued Date : 2019. 08. 06

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**THERMOS KOREA CO., LTD**  
22F, FKI Tower, 24 ,Yeoui-daero  
Yeongdeungpo-gu, Seoul  
Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

**SGS File No.** : AYHA19-08979  
**Sample Description** : JDE-600KC  
**Style no./Item no.** : TBW  
**Order No.** : -  
**Manufacturer** : -  
**Country of Origin** : -  
**Country of Destination** : -  
**Received Date** : 2019. 07. 30  
**Test Period** : 2019. 07. 30 to 2019. 08. 06  
**Test Result(s)** : For further details, please refer to following page (s)  
**Result Summary** :

| Test Requested   | Conclusion |
|--|------------|
| EN71-3:2013 + A3:2018 – Migration of certain elements<br>(By all conclusive testing) | PASS       |

SGS Korea Co., Ltd.



Tommy Oh / Chemical Lab Mgr

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## Test Results :

### EN71-3:2013 + A3:2018 – Migration of certain elements

#### Category III: Scrapped-off toy material

Method : With reference to EN71-3:2013 + A3:2018. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS. Organic Tin was analyzed by GC-MS.

GC-MS.

| Test Item                         | Result (mg/kg) |  | Reporting Limit (mg/kg) | Permissible Limit (EN71-3:2013 +A3:2018) (mg/kg) |
|-----------------------------------|----------------|--|-------------------------|--|
|                                   | 1              |  |                         |  |
| Mass of trace amount (mg)         | 27.1           |  | --                      | --   |
| Soluble Aluminium (Al)            | ND             |  | 50                      | 70,000   |
| Soluble Antimony (Sb)             | ND             |  | 10                      | 560  |
| Soluble Arsenic (As)              | ND             |  | 10                      | 47   |
| Soluble Barium (Ba)               | ND             |  | 50                      | 18,750   |
| Soluble Boron (B)                 | ND             |  | 50                      | 15,000   |
| Soluble Cadmium (Cd)              | ND             |  | 5                       | 17   |
| Soluble Chromium (Cr)             | 2.0            |  | 0.15                    | --   |
| Soluble Chromium (III) (Cr (III)) | ND             |  | 5                       | 460  |
| Soluble Chromium (VI) (Cr (VI))   | ND             |  | 0.18                    | 0.2  |
| Soluble Cobalt (Co)               | ND             |  | 10                      | 130  |
| Soluble Copper (Cu)               | ND             |  | 50                      | 7,700  |
| Soluble Lead (Pb)                 | ND             |  | 10                      | 23   |
| Soluble Manganese (Mn)            | ND             |  | 50                      | 15,000   |
| Soluble Mercury (Hg)              | ND             |  | 10                      | 94   |
| Soluble Nickel (Ni)               | ND             |  | 10                      | 930  |
| Soluble Selenium (Se)             | ND             |  | 10                      | 460  |
| Soluble Strontium (Sr)            | ND             |  | 50                      | 56,000   |
| Soluble Tin (Sn)                  | ND             |  | 4.9                     | 180,000  |
| Soluble Organic Tin --            | ND             |  | --                      | 12   |
| Soluble Zinc (Zn)                 | ND             |  | 50                      | 46,000   |
| Comment for EN71-3:2013 + A3:2018 | PASS           |  | --                      | --   |

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| Test Item(s)    |         | Soluble Organic Tin Result(s) (mg/kg) | MDL<br>(mg/kg) |
|-----------------|---------|---------------------------------------|----------------|
|                 |         | 1                                     |                |
| Methyl tin      | (MeT)   | ND                                    | 0.5            |
| Di-n-propyl tin | (DProT) | ND                                    | 0.5            |
| Butyl tin       | (BuT)   | ND                                    | 0.5            |
| Dibutyl tin     | (DBT)   | ND                                    | 0.5            |
| Tributyl tin    | (TBT)   | ND                                    | 0.5            |
| n-Octyl tin     | (MOT)   | ND                                    | 0.5            |
| Tetrabutyl tin  | (TeBT)  | ND                                    | 0.5            |
| Diphenyl tin    | (DPhT)  | ND                                    | 0.5            |
| Di-n-octyl tin  | (DOT)   | ND                                    | 0.5            |
| Triphenyl tin   | (TPhT)  | ND                                    | 0.5            |

## Sample Description :

1. Tan blue wine coating

Note. 1. mg/kg = milligram per kilogram

2. ND = Not Detected

3. 1% = 10000 mg/kg = 10000 ppm

## Picture of Sample as Received :



**AYHA19-08979**

\*\*\* End of Report \*\*\*

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