



**Technical Report No. 68.420.19.0813.01**  
**Dated 2019-06-28**

Client: TTP COFFEE SENSOR SRL

Address: Corneliu Coposu st. No 2, bl. 1', ap.5, Zalău City, Salaj County, Romania

Attn.: /

Sample Description: TEMPERATURE SENSOR – E61 HX OR SBDU GROUP HEAD THERMOMETER

Model No.: CS-001

Sample Received Date: 2019-06-19

Test Period: From 2019-06-19 to 2019-06-27

Location of Testing: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Purpose of examination: As specified by client, to test as regulated by the Regulation (EC) No.1935/2004

For material: Metal and Metal alloy

- Specific Migration of 21 Heavy Metals according to European Directorate for the Quality of Medicines & Healthcare Technical guide PA/PH/EMB (13) 9 and Resolution CM/Res(2013)9

Test Result: Refer to following page(s)

Remark: The result relates only to the items tested.

**PASS**

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
TÜV SÜD Group

Prepared by:

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1. TESTED SUBJECT DESCRIPTION

Sample Number	Item Name	Tested Material Description	Photo
001	Probe (SS)	Silvery metal	



**2. TEST RESULT**

**2.1. SPECIFIC MIGRATION OF HEAVY METAL CONTENT TEST**

Test method: The sample(s) were extracted with food simulant , followed by analysis using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry(ICP-MS).

Testing condition and simulant: 0.5% citric acid at 100 °C for 0.5 hour(s).

No.	Test Item		Result [mg/kg]		Maximum Permissible Limit [mg/kg]	
			Sample 001		1 <sup>st</sup> +2 <sup>nd</sup> migration	3 <sup>rd</sup> migration
			1 <sup>st</sup> +2 <sup>nd</sup> migration	3 <sup>rd</sup> migration		
1.	Barium	(Ba)	<0.2	<0.1	8.4	1.2
2.	Copper	(Cu)	<0.2	<0.1	28	4
3.	Iron	(Fe)	0.9	<0.1	280	40
4.	Tin	(Sn)	<1.0	<0.5	700	100
5.	Chromium	(Cr)	<0.1	<0.05	1.75	0.250
6.	Manganese	(Mn)	<0.2	<0.1	12.6	1.8
7.	Zinc	(Zn)	< 0.2	< 0.1	35	5
8.	Aluminum	(Al)	<0.2	<0.1	35	5
9.	Lithium	(Li)	<0.01	<0.005	0.336	0.048
10.	Beryllium	(Be)	< 0.004	<0.002	0.07	0.01
11.	Vanadium	(V)	< 0.004	< 0.002	0.07	0.01
12.	Nickel	(Ni)	<0.1	<0.05	0.98	0.14
13.	Cobalt	(Co)	<0.004	<0.002	0.14	0.02
14.	Arsenic	(As)	<0.0008	<0.0004	0.014	0.002
15.	Molybdenum	(Mo)	0.009	<0.002	0.84	0.12
16.	Silver	(Ag)	<0.004	<0.002	0.56	0.08
17.	Cadmium	(Cd)	<0.0008	<0.0004	0.035	0.005
18.	Antimony	(Sb)	<0.01	<0.005	0.28	0.04
19.	Mercury	(Hg)	< 0.001	< 0.0005	0.021	0.003
20.	Thallium	(Tl)	< 0.0002	< 0.0001	0.0007	0.0001
21.	Lead	(Pb)	< 0.02	< 0.01	0.07	0.010

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than

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