



**Technical Report No. 68.165.12.00682.01A**  
**Dated 2012-06-27**

Client: C.D. PRODUCTS S.A.

Address: KANNA 2, LOCAL 3, 28400 COLLADO VILLALBA MADRID - SPAIN

Attn.: AUGUSTO TEROL,

Sample Description: MOUTH PIECE FOR ALCOHOL TESTER

Model No.: CDP-25PK

Supplier: C.D. PRODUCTS S.A.

Sample Received Date: 2012-06-19

Test Period: From 2012-06-19 to 2012-06-26

Test Requested: As specified by client, to test below items as stated in the German Food & Feed Acts LFGB (§ 30 & 31) and Regulation (EC) No.1935/2004,

1. For material: Plastics
  - Overall migration test for compliance with regulation (EU) 10/2011.
2. For material: Plastics
  - Specific Migration of Heavy Metals ((Ba, Co, Cu, Fe, Li, Mn, Zn) for compliance with regulation (EU) 10/2011
3. For material: Plastics
  - Specific Migration of Primary Aromatic Amine for compliance with regulation (EU) 10/2011.
4. For material: Plastic
  - Remaining Peroxide
5. For material: Polypropylene (PP)
  - Total Chromium, Vanadium , Zirconium and Hafnium content
6. Sensory test
  - With reference to DIN 10955

Test Result: Refer to following page(s)


Conclusion: The submitted sample with test part(s) was found to **comply** with the respective requirement(s) for the tested item(s) as stated in the German Food & Feed Acts LFGB (§ 30 & 31) and Regulation (EC) No.1935/2004 (Material in contact with food regulation)

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1. TESTED SUBJECT DESCRIPTION

SAMPLE NUMBER	ITEM NAME	TESTED MATERIAL DESCRIPTION	PHOTO
001	MOUTH PIECE FOR ALCOHOL TESTER	Translucent plastic	

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## 2. TEST RESULT

### 2.1 OVERALL MIGRATION TEST FOR PLASTIC

Test method: As specified in Regulation (EU) No. 10/2011; with reference to EN 1186:part 1, part 2, part 3, part 8, part 9 & part 14 :2002.

SIMULANT USED	TEST CONDITION	RESULT [mg/dm <sup>2</sup> ]	MAXIMUM PERMISSIBLE LIMIT [mg/dm <sup>2</sup> ]
		SAMPLE 001	
10% Ethanol	70°C for 2 hours	< 3.0	10

Note:

- “°C” denotes degree Celsius
- “mg/dm<sup>2</sup>” denotes milligram per square decimeter
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011.

### 2.2 SPECIFIC MIGRATION OF HEAVY METALS (Ba, Co, Cu, Fe, Li, Mn, Zn) TEST

Test method: As specified in Regulation (EU) No. 10/2011, the sample(s) were migrated with food simulant, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.

Testing condition and simulant: Distilled water at 40°C for 0.5 hours.

TEST ITEM	RESULT [mg/kg]	MAXIMUM PERMISSIBLE LIMIT [mg/kg]
	SAMPLE 001	
Barium (Ba)	< 0.10	1
Cobalt (Co)	< 0.050	0.05
Copper (Cu)	< 0.10	5
Iron (Fe)	< 1.00	48
Lithium (Li)	< 0.10	0.6
Manganese (Mn)	< 0.05	0.6
Zinc (Zn)	< 1.00	25

Note:

- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011.

### 2.3 SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE TEST

Test method: With reference to EN 1186-1: 2002, followed by Kunststoffe im Lebensmittelverkehr, Book 2, Teil B II, XXI. [Detection limit: 0.01 mg/kg]

Testing condition and simulant: Distilled water at 40°C for 0.5 hours.

TEST ITEM	RESULT [mg/kg]	MAXIMUM PERMISSIBLE LIMIT [mg/kg]
	SAMPLE 001	
Migration of Primary Aromatic Amine	< 0.01	Not Detected (< 0.01 mg/kg)

Note:

- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011.

### 2.4 REMAINING PEROXIDE TEST

Test method : With reference to 58th Communication on the testing of plastics, Bundesgesundheitsbl. 40 (1997) 412.

TEST ITEM	RESULT	MAXIMUM PERMISSIBLE LIMIT
	SAMPLE 001	
Remaining Peroxide	Absent	Absent

Note:

- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr Part XV and Part VI.

### 2.5 TOTAL CHROMIUM, VANADIUM AND ZIRCONIUM CONTENT TEST

Test method: Microwave digestion, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.

TEST ITEM	RESULT [mg/kg]	MAXIMUM PERMISSIBLE LIMIT [mg/kg]
	SAMPLE 001	
Chromium (Cr)	< 5.0	10
Vanadium (V)	< 5.0	20
Zirconium (Zr)	< 10.0	100
Hafnium (Hf)	< 10.0	100

Note:

- “mg/kg” denotes miligram per kilogram
- “<” denotes less than
- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr” Part VII “Polypropylene”.



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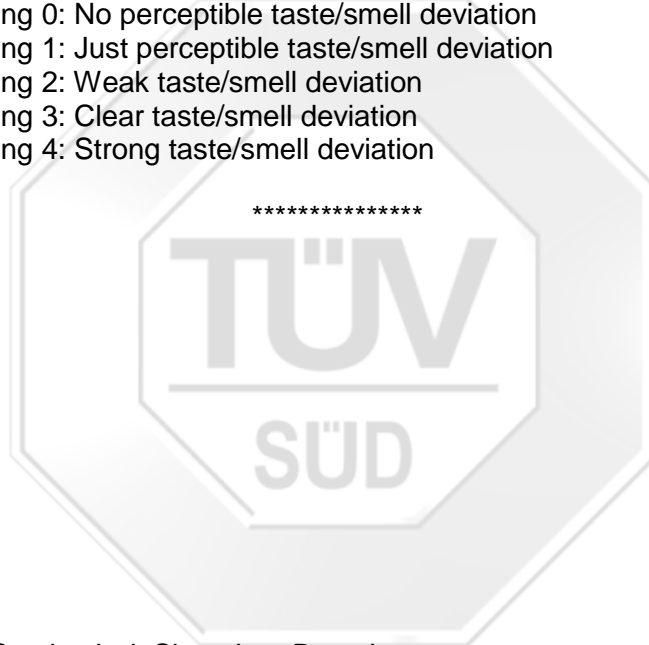
**2.6 SENSORY TEST**

Test method: With reference to DIN 10955. The submitted sample was treated with distilled water at 40 °C for 0.5 hour. After this treatment, treated water was examined by panels with regard to any divergence in smell and taste.

TEST ITEM	GRADING RESULT	RECOMMENDED LEVEL
	SAMPLE 001	
Transfer of Taste	1	< 2.5
Transfer of Smell	1	< 2.5

Note:

- Explanation for grading are listed as below:  
 Grading 0: No perceptible taste/smell deviation  
 Grading 1: Just perceptible taste/smell deviation  
 Grading 2: Weak taste/smell deviation  
 Grading 3: Clear taste/smell deviation  
 Grading 4: Strong taste/smell deviation



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