

## Analytical report AR-14-JR-007483-02

This report will replace report number: AR-14-JR-007483-01



## Sample Code 799-2014-00028787

Reference	Beech wooden sticks covered with wax (Classic 113mm, Classic 93mm, Magnum 75mm, Magnum 93)
Number	1
Ordered by	Mrs. Maria Ghinea
Submitted by	Mrs. Maria Ghinea
Sender	TNT
Reception date time	02.04.2014
Start/end of analyses	02.04.2014 / 05.05.2014

## TEST RESULTS

### Physical-chemical Analysis

#### JR0EC Polycyclic Aromatic Hydrocarbons (PAHs) in products (#)

Method: ZEK 01.4-08, GC-MS

Naphthalene	<0.1	* mg/kg
Acenaphthylene	<0.1	* mg/kg
Acenaphthene	<0.1	* mg/kg
Fluorene	<0.1	* mg/kg
Phenanthrene	<0.1	* mg/kg
Anthracene	<0.1	* mg/kg
Fluoranthene	<0.1	* mg/kg
Pyrene	<0.1	* mg/kg
Benzo(a)anthracene	<0.1	* mg/kg
Chrysene	<0.1	* mg/kg
Benzo(b)fluoranthene	<0.1	* mg/kg
Benzo-(k)-fluoranthene	<0.1	* mg/kg
Benzo-(j)-fluoranthene	<0.1	* mg/kg
Benzo(a)pyrene	<0.1	* mg/kg
Benzo(e)pyrene	<0.1	* mg/kg
Indeno(1,2,3-cd)pyrene	<0.1	* mg/kg
Dibenzo(a,h)anthracene	<0.1	* mg/kg
Benzo(ghi)perylene	<0.1	* mg/kg
Sum 18 PAH	<0.2	mg/kg

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**JJ0TZ Overall migration in 10% ethanol (#)**

Method: EN 1186, gravimetric

Migration Type	immersion	
Temperature	5	°C
Duration of experiment	10	days
Replicate 1	113	mg/dm <sup>2</sup>
Replicate 2	90	mg/dm <sup>2</sup>
Replicate 3	99	mg/dm <sup>2</sup>
Median	101	mg/dm <sup>2</sup>
surface volume ratio	1/100	dm <sup>2</sup> /ml
Variation from Norm	none	

**JJ0IB Overall migration in 50% ethanol (#)**

Method: EN 1186, Gravimetric

Migration Type	immersion	
Temperature	40	°C
Duration of experiment	10	days
Replicate 1	119	mg/dm <sup>2</sup>
Replicate 2	114	mg/dm <sup>2</sup>
Replicate 3	97	mg/dm <sup>2</sup>
Median	110	mg/dm <sup>2</sup>
surface volume ratio	1/100	dm <sup>2</sup> /ml
Variation from Norm	none	

**JJ0PD Overall migration in 95% ethanol (#)**

Method: EN 1186, Gravimetric

Migration Type	immersion	
Temperature	40	°C
Duration of experiment	10	days
Replicate 1	35	mg/dm <sup>2</sup>
Replicate 2	31	mg/dm <sup>2</sup>
Replicate 3	38	mg/dm <sup>2</sup>
Median	35	mg/dm <sup>2</sup>
surface volume ratio	1/100	dm <sup>2</sup> /ml
Variation from Norm	none	

**SFLA0 pesticide screening using GC/MS**

Method: extraction / clean-up / GC/MS

Subcontracted to a Eurofins laboratory accredited for this test.

Screened pesticides

&lt; L.Q. \* mg/kg

\* = Below indicated quantification level

(#) = Eurofins Consumer Product Testing (Hamburg) is accredited for this test.

**JUDGEMENT**

According to §31 of the German Food and Feed Code (Lebensmittel- und Futtermittelgesetz, LFGB) and the European Framework-Regulation VO (EC) No. 1935/2004 food contact materials may not release substances in food or its surface in quantities that could

1. endanger human health
2. bring about an unacceptable deterioration of the composition or the organoleptic properties (smell, taste) or the appearance of food (e.g. colour)

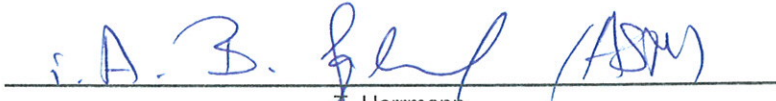
For wood and as a natural product a transfer of substances (migration) into food is to be expected.

PAH were not detectable.

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In the scope of the analyses performed and under the above test conditions there was no indication for an objection. Therefore, under consideration of the above legal requirements, incl. the German Food and Feed Code (LFGB) and the European Framework-Regulation (EC) No. 1935/2004, there are no concerns against the utilization of the investigated article under the above mentioned time and temperature durations.

Signature

  
T. Herrmann  
(General manager)