INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

TESTING LABORATORY - TESTING DIVISION

issues

ATTEST

No. 472116900-01

On sample:

Skewers for hamburgers and other food

(beech wood without surface treatment)

Client:

Zuzana Koubová Zmítková

Na Ovčírně 52, 25268 Středokluky, Czech Republic

ID: 06012175

Evaluation of the measured parameters:

The evaluated parameters mentioned on the pages 3 and 4 of the Attest meet hygienic requirements for the **products made of wood** given by § 3, paragraph 3 of **Czech Health Ministry Decree No. 38/2001 Coll.,** relating to hygienic requirements for the articles intended to come into contact with foodstuffs, as amended.

The evaluated sample does not cause a deterioration in organoleptic characteristics of food.

The evaluated sample meets requirements of the article 3 of **Regulation (EC) No. 1935/2004 of the European Parliament and of the Council** on materials and articles intended to come into contact with food.

This Attest was issued on the basis of the accredited test report Ref. No. 472116900-01 issued on October 16, 2023.

Issued on: October 16, 2023
Valid till: October 31, 2026

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Dipl. Ing. Jiří Samsonek, Ph.D.
Head of the testing laboratory

Conditions for use of the Attest and associated information:

1. *The Attest applies only to the sample tested by our laboratory.*
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Submitted sample:

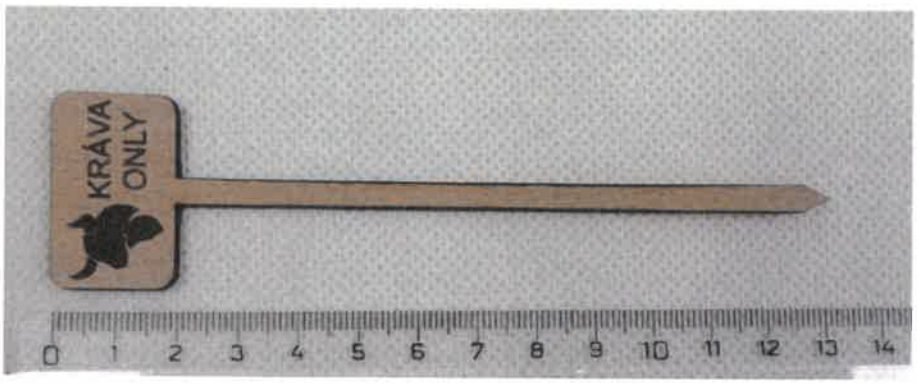


Fig. No. 1: Skewers for hamburgers and other food (beech wood)

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Values obtained:

Assessment of organoleptic properties

Food simulant, contact conditions		Ham 23 °C / 2 h		Cheese 23 °C / 2 h		Tomato 23 °C / 2 h	
Assessor No.	**Unit**	**Odour**	**Flavour**	**Odour**	**Flavour**	**Odour**	**Flavour**
1	level	0	0	0	0	0	0
2	level	0	0	0	0	0	0
3	level	1.5	1.5	2 (chemical)	1.5	1	0
4	level	0	0	0	0	0	0
5	level	1	0	0	0	0	0
6	level	2 (chemical)	2 (chemical)	1.5	1.5	1	1
Mean	**level**	**1**	**0.5**	**0.5**	**0.5**	**0.5**	**0**

Notes to the table:

Off-odour and off-taste scale:

0 = No perceptible off-odour or off-taste
1 = Just perceptible off-odour or off-taste (off-odour and off-taste determination is very difficult)
2 = Slightly perceptible off-odour or off-taste
3 = Clearly perceptible off-odour or off-taste
4 = Strong off-odour or off-taste

According to Regulation (EC) No. 1935/2004 of the European Parliament and of the Council the articles shall not cause deterioration in the organoleptic characteristics of food.

Toxic elements determination

Element	Unit	Test result [1)]	Uncertainty
Pb	mg/kg	< 20	-
Cd	mg/kg	< 20	-
Hg	mg/kg	< 20	-
Cr	mg/kg	< 20	-
Sb	mg/kg	< 50	-
As	mg/kg	< 20	-
Se	mg/kg	< 20	-
Br	mg/kg	< 20	-

Notes to the table:

[1)] Symbol „<“ means less than LOQ (limit of quantification) of the analytical method.

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Identification of low-molecular substances by method TD-GC-MS

Substance name [1]	CAS	FCM	Comment
Glycerol	-	-	Substances originating from natural material (wood)
1,4-Dimethylpyrazole	1072-68-0	-	
Galaktose derivates	-	-	
4-Hydroxy-2-methoxy-cinnamaldehyde	127321-19-1	-	
Asarone	2883-98-9	-	
Other substances originating from wood			

Notes to the table:

[1] Identified substances can be either original ones, presented in the sample, or it can be degradation products. Match of the MS spectra of found substances with standard MS spectra from D-base are in the range of 70-95 %.

FCM = Food Contact Material No.
CAS = unique numerical identifier assigned by the Chemical Abstracts Service

Visual assessment of appearance and presence of pests

Parameter	Result of assessment	Requirement [1]
Appearance assessment	Visually meets the requirements	The surface without defects, rest of bark, resins ejections, non-cracked smooth surface, with no signs of pests or microorganism

Note to the table:

[1] The requirement of Decree of Health Ministry No. 38/2001 Coll., as amended, § 3, paragraph 3

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třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic
Testing Laboratory – D2

Attest No. 472116900-01

Sample description and identification:

ITC's number	Sample identification by client	Description of submitted sample
16900/1	**Skewers for hamburgers and other food (beech wood without surface treatment)**	see the figure I on the page 2 of this attest

Request
Evaluation of hygienic properties of the sample according to Decree of Health Ministry No. 38/2001 Coll. *for articles intended into a contact with foodstuffs,* as amended, in compliance with Law of Czech Republic No. 258/2000 Coll. *about protection of the public health*, as amended.
The evaluation of hygienic properties of the sample is based on European legislation in the sense of Regulation (EC) No. 1935/2004 of the European Parliament and of the Council *on materials and articles intended to come into contact with food.*

Opinions and interpretations:
The evaluated product **"Skewers for hamburgers and other food (beech wood)"** is intended to come into direct contact with foodstuffs.

The requirements on products intended into direct contact with foodstuffs are given by Decree of the Health Ministry No. 38/2001 Coll., as amended (hereinafter referred to as Decree 38/2001) and by European Parliament and Council Regulation No. 1935/2004 (hereinafter referred to as Regulation 1935).

General requirements - Decree 38/2001 and Regulation 1935
The products intended to contact with foodstuffs shall be manufactured so that. under normal or foreseeable conditions of use. they do not transfer their constituents to food in quantities which could: endanger human health or bring about an unacceptable change in the composition of the food or bring about a deterioration in the organoleptic characteristics thereof. The performed tests verified that the evaluated sample does not influence the organoleptic properties of the food (see the table on the page 3 of this attest). The content of toxic elements was below the limit of quantification of the used analytical method (XRF) - mg/kg units – see the table on the page 3 of this attest.

Requirements on the products of natural materials - Decree 38/2001
According to the article 3, paragraph 3 the products intended into direct contact with foodstuffs can be made from natural materials, like cork, the wood from non-poisonous wood plants, without defects, bark particles, resin outflow and smooth and non-cracked surface. Pests and fibered fungi must not attack these materials. The visual assessment of the appearance of the products within the meaning of the above requirements is shown in the tables on page 4 of this attest. According to the client's information the product is made of the wood from non-poisonous plants – beech. The evaluated article meets all the above mentioned requirements.

The opinion expressed and interpretation made by:
Dipl. Ing. Šárka Kopečková, October 16, 2023

Conclusion:
The comparison of the obtained results with the limits of Decree No. 38/2001 Coll., as amended and of the article 3 of European Parliament and Council Regulation No. 1935/2004 and evaluation of the conformity with these regulations are mentioned on the page 1 of this attest.

Dipl. Ing. Daniel Vít
Head of the laboratory of analytical chemistry and microbiology

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