

**THE REGIONAL PUBLIC HEALTH AUTHORITY
IN POPRAD**

**Zdravotnícka 3525/3, 058 97 Poprad
LABORATORY RÚVZ IN POPRAD**

**The National Reference Laboratory
for materials intended to come into contact with foodstuffs**

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A – accreditation test
N – non accreditation test

TEST REPORT No 1665, 2617/2021

The results of laboratory analysis and evaluation of safety of the product

The laboratory is accredited by the Slovak National Accreditation Service according to EN ISO / IEC 17025:2017 in accordance with the requirements of the Regulation of the European Parliament and the Council (EC) No 2017/625 of 13 March 2017 as amended.

Name and address of customer : Paper Straw, s.r.o.
Stavbárska 4
036 01 Martin
Slovakia

Date of samples receipt : 04.05.2021
Sampling : sampling by customer (N)
Date of finalised of tests : 21.06.2021
Date of issue : 22.06.2021

Samples title : **corrugated cardboard products
(pizza box, hamburger box, gastro packaging)**

Application : *on direct contact with food – packaging of desserts, burgers and pizza*

Producer : Paper Straw, s.r.o., Martin, Slovakia

Chemical examination

- I. Determination of specific migration of substances in hot sample leachate to water**
Test conditions : 2 hrs ⁺⁵₀ min, (80 ± 3) °C
- II. Determination of specific migration of substances in cold sample leachate to water**
Test conditions : 24 hrs ⁺⁵₀ min, (20 ± 1) °C

I.
a)

Content of Cd, Pb, Cr, As, Hg	
Food simulant deionized water	Result (mg/kg simulant)
Cd	≤ 0.0004
Pb	0.01
Cr	0.04
As	< 0.009
Hg	≤ 0.02

Kind of method, principle	
ŠPP-ŠA2, AAS/ETA (ŠLIČHA)	A
ŠPP-ŠA1, AMA (ŠLIČHA)	N

II.
a)

Content of formaldehyde	
Food simulant deionized water	Results (mg/dm ²)
	< 0.0200

Kind of method, principle	
ŠPP-N2, spectrophotometry (NRL FCM)	A

b)

Content of phenols	
Food simulant deionized water	Result (mg/dm ²)
	0.0584

Kind of method, principle	
ŠPP-N4, spectrophotometry (NRL FCM)	N

EXPLANATORY NOTES:

Test result given in the form „≤ number“ means ≤ limit of detection (LOD) method of analysis.

Test result given in the form „< number“ means < limit of quantification (LOQ) method of analysis.

ŠPP – standard operation process

*Measures and measuring equipments used for analysis were attested/calibrated in terms of valid metrology regulations.
The test results are relevant solely to the testing samples.*

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Responsibilities for expertise's activities :

- Mgr. Ing. Milada Syčová, MPH, head of National Reference Laboratory for materials intended to come into contact with foodstuff
- Ing. Rastislav Rosipal, head Specialized laboratory 1 chemical analysis

Validity:

The results of laboratory analysis and evaluation of safety of the products in accordance with valid legislation regulation (EC) No 1935/2004 should be updated if some changes carry out in the manufacturing process which can cause changes in the migration of substances into used food simulators or if there are changes in the current legislative regulations.

Evaluation of safety of the product

Sample – corrugated cardboard products, was laboratory examined in the accredited testing laboratory at the Regional Public Health Authority seated in Poprad, which was authorised (letter of Ministry of Health of SR No 15654-3/2007ŠT) as *National Reference Laboratory for materials intended to come into contact with foodstuffs* according Regulation (EC) No 882/2004 on official controls performed to ensure the verification of compliance with feed and food law, animal health and animal welfare rules.

Sample – corrugated cardboard products, was laboratory tested in accordance with the following legislation laws :

- *Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC*
- *Regulation of Ministry of Agriculture of Slovak republic and Ministry of Health of Slovak republic of 9 June 2003 No 1799/2003-100, which issued the fifth head of the Food Code governing materials and articles intended to come into contact with foodstuffs as amended*

Tested sample – corrugated cardboard products in parameters :

- content of Cd, Pb, Cr, As and Hg in sample's leachate to deionized water on test condition I.
- content of formaldehyde in sample's leachate to deionized water on test condition II.
- content of phenols in sample's leachate to deionized water on test condition II.

meets the requirements of the:

- *Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC*
- *Regulation of Ministry of Agriculture of Slovak republic and Ministry of Health of Slovak republic of 9 June 2003 No 1799/2003-100, which issued the fifth head of the Food Code governing materials and articles intended to come into contact with foodstuffs as amended.*

Following the laboratory examination results **the tested sample – corrugated cardboard products (pizza box, hamburger box, gastro packaging)**, produced by company Paper Straw, s.r.o., Martin, Slovakia **meets the requirements** of the :

- *Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC*
- *Regulation of Ministry of Agriculture of Slovak republic and Ministry of Health of Slovak republic of 9 June 2003 No 1799/2003-100, which issued the fifth head of the Food Code governing materials and articles intended to come into contact with foodstuffs as amended*

and can be used on contact with food – packaging of desserts, burgers and pizza.

The evaluation of safety of the product and test report prepared by:



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National reference laboratory
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Mgr. Ing. Milada Syčová, MPH

**Head of National reference laboratory
for materials intended to come into contact with foodstuffs**

The test report approved by:

RNDr. Denisa Pilková

Head of Laboratory of RÚVZ in Poprad