

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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EU Network of
National Reference Laboratories



A – accreditation test
N – non accreditation test

TEST REPORT No 2824 – 2826/2020

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 : 19.06.2020
Sampling : sampling by customer (N)
Date of finalised of tests : 19.08.2020
Date of issue : 24.08.2020

Samples title : paper straw – brown (compostable, biodegradable, 100% recyclable)

Application : on direct contact with food - with cold and hot non-alcoholic and alcoholic beverages up to 14 vol. % alcohol

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, 80 °C

I.
a)

Content of formaldehyde (FCM 98)	
Food simulant	Results (mg/kg)
B: 3% acetic acid	< 3.00

Kind of method, principle	
STN P CEN/TS 13130-23, spectrophotometry (NRL FCM)	N

b)

Content of primary aromatic amines	
Food simulant	Result (mg/kg)
B: 3% acetic acid	≤ 0.0025

Kind of method, principle	
ŠPP-N6/A, spectrophotometry (NRL FCM)	N

c)

Content of phenols	
Food simulant	Result (mg/kg)
B: 3% acetic acid	≤ 6,2

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

d)

Content of Cd, Pb, Cr, As, Hg	
Food simulant water	Result (mg/kg sample)
Cd	≤ 0.00003
Pb	≤ 0.0001
Cr	0.001
As	≤ 0.0002
Hg	≤ 0.0006

Kind of method, principle	
ŠPP-ŠA2, AAS/ETA (ŠLIČHA)	A
ŠPP-ŠA1, AMA (ŠLIČHA)	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 – paper straw – brown (compostable, biodegradable, 100% recyclable) 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 – paper straw – brown (compostable, biodegradable, 100% recyclable) 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*

The conditions of the modeling migration tests and the selection of the foodstuffs simulants in laboratory examination are in compliance with the requirements of *Commission Regulation (EU) No 10/2011 of 14 January 2011 relating to plastic materials and articles intended to come into contact with food and its amendments*.

Tested sample – paper straw – brown (compostable, biodegradable, 100% recyclable) in parameters :

- content of formaldehyde (FCM 98) in sample's leachate to 3% acetic acid
- content of primary aromatic amines in sample's leachate to 3% acetic acid
- content of phenols in sample's leachate to 3% acetic acid
- content of Cd, Pb, Cr, As, Hg in sample's leachate to 3% acetic acid

on test condition I. meets the requirements of the *Commission Regulation (EU) No 10/2011 of 14 January 2011 relating to plastic materials and articles intended to come into contact with food and amendments Commission Regulation (EU) No 1282/2011, Commission Regulation (EU) No 1183/2012, Commission Regulation (EU) No 202/2014, Commission Regulation (EU) No 174/2015, Commission Regulation (EU) No 2016/1416, Commission Regulation (EU) No 2017/752, Commission Regulation (EU) No 2018/79, Commission Regulation (EU) No 2018/213, Commission Regulation (EU) No 2018/831 and Commission Regulation (EU) No 2019/37.*

Following the laboratory examination results **the tested sample – paper straw – brown (compostable, biodegradable, 100% recyclable)** 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*
- *Commission Regulation (EU) No 10/2011 of 14 January 2011 relating to plastic materials and articles intended to come into contact with food and its amendments*

and can be used on direct contact with food - with cold and hot non-alcoholic and alcoholic beverages up to 14 vol. % alcohol.

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



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AUTHORITY IN POPRAD
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National reference laboratory
for materials intended to come
into contact with foodstuffs

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 Pílková
Head of Laboratory of RÚVZ in Poprad