

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

phone: 00421 52 7722453

e-mail: pp.nrc@uvzsr.sk

www.ruvzpp.sk

EU Network of  
National Reference Laboratories



Food Contact Materials



SNAS

Reg. No. 126/S-096

A – accreditation test

N – non accreditation test

Test report  
Laboratory analysis results and assessment of the product  
No 1531/2020

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

Date of samples receipt: 24.03.2020  
Sampling: sampling by customer (N)  
Date of finalized of tests: 15.04.2020  
Date of issue: 20.04.2020

Samples title: paper straw (composable, recyclable)

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

Producer : Paper Straw, s.r.o., Stavbárska 4, 036 01 Martin

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	
Food simulant	Results (mg.dm <sup>-2</sup> )
water	0.0406

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

b)

Content of primary aromatic amines	
Food simulant	Results (mg.dm <sup>-2</sup> )
water	≤ 0.00050

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

c)

Content of phenols	
Food simulant	Results (mg.dm <sup>-2</sup> )
water	≤ 0.0060

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

d)

Content of bisphenol A	
Food simulant	Results (mg.kg <sup>-1</sup> )
water	≤ 0.004

Kind of method, principle	
STN EN 15136 HPLC/DAD/FLD (ŠL1CHA)	A

e)

Content of Cd, Pb, Cr, As, Hg	
Food simulant	Results (mg.kg <sup>-1</sup> sample)
water	
Cd	≤ 0.00009
Pb	≤ 0.004
Cr	≤ 0.006
As	≤ 0.007
Hg	≤ 0.02

Skúšobná metóda, princíp metódy	
ŠPP-ŠA2, AAS/ETA (ŠL1CHA)	A
ŠPP-ŠA1, AMA (ŠL1CHA)	N

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.

The test results are relevant solely to the testing samples.

This document may not be copied in a shortened form and without the approval of the testing laboratory.

Responsibilities for expertise's activities :

- Mgr. Ing. Milada Syčová, MPH, head of National Reference Laboratory for materials intended to come into contact with foodstuff (NRL FCM)
- Ing. Rastislav Rosipal, head of Specialized laboratory 1 chemical analysis (ŠL1CHA)

**Validity:**

**The laboratory analysis results and assessment of safety of 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.**

## Laboratory analysis results and assessment of safety of product

Sample – paper straw (composable, 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 (composable, 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.

Tested sample – paper straw (composable, recyclable) in parameters :

- content of formaldehyde in sample's leachate to water
- content of primary aromatic amines in sample's leachate to water
- content of phenols in sample's leachate to water
- content of bisphenol A in sample's leachate to water
- content of Cd, Pb, Cr, As, Hg in sample's leachate to water

test condition I. meets the requirements of :

- 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
- art. 3 regulation (EC) No 1935/2004 of the European Parliament and of the Council.

Following the laboratory examination results and supporting documentation - in term of the health protection - **it is possible to recommend product - paper straw (composable, recyclable)** produced by company Paper Straw, s.r.o., Martin **on direct contact with cold and hot non-alcoholic and alcoholic beverages up to 14 vol. % alcohol.**

**The assessment of safety of product and test report prepared by:**



REGIONAL PUBLIC HEALTH  
AUTHORITY IN POPRAD  
Zdravotnícka 3, 058 97 Poprad  
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 food**

The test report approved by:

RNDr. Denisa Pilková   
Head of Laboratory of RUVZ in Poprad