

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
Laboratory analysis results and assessment of safety of the products
No 7418 – 7419/2019

Name and address of customer : Paper Straw, s.r.o.
Stavbárska 787/4
036 01 Martin

Date of samples receipt: 18.09.2019
Sampling: sampling by customer (N)
Date of finalized of tests: 01.10.2019
Date of issue: 03.10.2019

Samples title: different sizes paper cups

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

Producer : Paper Straw, s.r.o., Stavbárska 787/4, 036 01 Martin

Chemical examination

I. Determination of specific migration of substances in hot sample leachate to water
Test condition : 2 hrs, 80 °C

I.
a)

Content of formaldehyde	
Food simulant	Results (mg.dm ⁻²)
deionized water	< 0.50

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

b)

Content of primary aromatic amines	
Food simulant	Results (mg.dm ⁻²)
deionized water	≤ 0.00042

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

c)

Content of phenols	
Food simulant	Results (mg.dm ⁻²)
deionized water	≤ 1.03

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

d)

Content of bisphenol A	
Food simulant deionized water	Results (mg.dm ⁻²)
bisphenol A	≤ 0.0012

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

e)

Content of Cd, Pb, Cr, As, Hg	
Food simulant deionized water	Results (mg.kg ⁻¹ simulant)
Cd	≤ 0.00003
Pb	≤ 0.0001
Cr	≤ 0.0002
As	≤ 0.0002
Hg	< 0.001

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

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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 (NRL FCM)
- Ing. Rastislav Rosipal, head of Specialized laboratory 1 chemical analysis (ŠLIČHA)

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.

Assessment of safety of the products

Different sizes paper cups were 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.

Different sizes paper cups were 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 – different sizes paper cups in parameters :

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

test condition I. meet 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 of Regulation (EC) No 1935/2004 of the European Parliament and of the Council.*

Following the laboratory examination results - in terms of the health protection - **it is possible to recommend products different sizes paper cups** produced by company Paper Straw, s.r.o., Stavbárksa 787/4, 036 01 Martin **for direct contact with cold and hot non-alcoholic and alcoholic beverages up to 14 vol. % alcohol.**

The assessment of safety of the products 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 RÚVZ in Poprad