REPUBLIKA SRBIJA
SP LABORATORIJA AD BEČEJ
MEMBER OF HAMILTON GROUP
Industrijska 3, 21220 Bečej

APPENDIX TO THE TEST REPORT
R23-19045 for sample R23083376

Order for analyses: / 15.08.2023

Sample number	R23083376
Sample name	*SINGLE-LAYER AND MULTI-LAYER PAPER BAGS WITH PRINT AND WITHOUT PRINT FOR FOOD PRODUCTS PACKAGING IN QUANTITIES 5kg, 10kg, 15kg, 20kg, 25kg, 30kg, 40kg and 50kg*

Expert estimation:

Based on the results of the examination, and in accordance with the provisions of the Law on Items of General Use, art. 4, art. 15 and art. 17 (Official Gazette of RS 25/2019, 14/2022) and corresponding by-laws, Examined sample is

HEALTH CORRECT

STATEMENT OF CONFORMITY EXAMINATION RESULTS:

Based on the above data and the results of the analyzed parameters, tested Sample **IN COMPLIANCE** art.2, art.6, art.44, art.63 Regulation on conditions in terms of health and safety items of general use which can be placed on market (Official Gazette of SFRJ 26/83, 61/84, 56/86, 50/89, 18/91, 60/2019-other Regulation i 78/2019-other Regulation) and art.3 Rulebook on the limit value of the total concentration level of lead, cadmium, mercury and hexavalent chromium in packaging or its components, exceptions to the application and deadline for the application of the limit value (Official Gazette of RS 70/2009).

APPENDIX:
Report on examination of the radioactivity of 2023/1334 for sample R23083376
Analysis was done on Faculty Veterinary medicine University of Belgrade, Department of Radiology and Radiation hygiene, Bulevar Oslobođenja 18, Beograd.

Mila Komarčić
Doctor -specialist in hygiene

01.09.2023

By test report number R23-19045 sample was analyzed R23083376.

When providing statement of conformity, a binary (simple) decision rule with shared risk without guard band was applied. Decision rules are available on the website www.splaboratorija.rs/dokumenta in the document Decision rules (excerpt from POS 021 Reporting of results).

Statement:

1. This report shall not be multiplied, except in full, without approval of SP LABORATORIJA.
2. The test results refer only to the test sample.
3. The test results are applied only to the sample as received, except when the SP LABORATORIJA is responsible for the sampling phase.
4. SP LABORATORIJA is responsible for all data presented in the Test Report except for those obtained from the customers.
5. SP LABORATORIJA disclaims responsibility for the validity of the results for whose statements the data obtained from the customers have been used.
6. SP LABORATORIJA disclaims responsibility for statements of conformity issued on the basis of testing of aggregate samples at the request of the customer
7. Test location in SP LABORATORIJA: Industrijska 3, 21220 Bečej
8. According to art.25 Law on Business Company ("Official Gazette of RS", no. 36/2011, 99/2011, 83/2014 - other law, 5/2015, 44/2018, 95/2018, 91/2019 and 109/2021) test report and appendix to the test report is valid without a stamp

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
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OBR 130 Izdanje 14 od 30.05.2023.

REPUBLIKA SRBIJA
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MEMBER OF HAMILTON GROUP
Industrijska 3, 21220 Bečej

QS. Quality scheme for food. www.q-s.de Approved for residue monitoring fruit, vegetables, potatoes

Gafta APPROVED ANALYST

Member of FOSFA INTERNATIONAL

ATC 01-018 ЛАБОРАТОРИЈА ЗА ИСПИТИВАЊЕ ISO/IEC 17025

ilac-MRA

SP Laboratorija is GMP+ B11 registered laboratory under number GMP049738

TEST REPORT R23-19045 / R23083376
Sample number: R23083376

Applicant	DRUŠTVO SA OGRANIČENOM ODGOVORNOŠĆU ZA PROIZVODNJU,PROMET I USLUGE KRUNA MM RUMENKA, Vojvode Putnika 40
Order for analyses	/ 15.08.2023.
Sample name	SINGLE-LAYER AND MULTI-LAYER PAPER BAGS WITH PRINT AND WITHOUT PRINT FOR FOOD PRODUCTS PACKAGING IN QUANTITIES 5kg, 10kg, 15kg, 20kg, 25kg, 30kg, 40kg and 50kg
Required analyses	Health + Analysis by client's request
Sampling data	Sample was delivered 16.08.2023.
Sample receiving date	16.08.2023.
Start testing date	18.08.2023.
End testing date	01.09.2023.
Date of issue of the report	01.09.2023.

APPENDIX:
Report on examination of the radioactivity of 2023/1334 for sample R23083376
Analysis was done on Faculty Veterinary medicine University of Belgrade, Department of Radiology and Radiation hygiene, Bulevar Oslobođenja 18, Beograd.

By test report number R23-19045 sample was analyzed R23083376.

R23083376: SINGLE-LAYER AND MULTI-LAYER PAPER BAGS WITH PRINT AND WITHOUT PRINT FOR FOOD PRODUCTS PACKAGING IN QUANTITIES 5kg, 10kg, 15kg, 20kg, 25kg, 30kg, 40kg and 50kg

Identification:

Net quantity of delivered sample: 15 pcs
Data obtained from customer:
Producer: MONDI ŠABAC D.O.O., Šabac, Serbia
Sample was delivered properly packed in closed non-original packaging
Users of bags: food industry
Purpose of sample: for the food industry

General look:

Sample according to the declaration consists of single-layer and multi-layer paper bags with printing and without printing for the packaging of food products in net quantities of 10kg, 15kg, 20kg, 25kg, 30kg, 40kg and 50kg. The bags are rectangular in shape, with a flat and smooth surface, without visible damage or irregularities. Along with the Sample, a Statement was sent to the service user that the Sample will be used in the food industry.
Color: the inside is white, and the outside is different Color, with colorful print

Analysis	Result	Reference data	Methods	
Test on residual odor before thermostating	Without residual odor	Without residual odor	Priručnik [118] [1]	Sensory

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OBR 103 Izdanje 22 od 22.05.2023.

Analysis	Result	Reference data	Methods	
Test on residual odor, after thermostating in duration of 1h at a temperature of 52oC	Without residual odor	Without residual odor	Priručnik [118] [1]	Sensory

[1]Outside the scope of accreditation

Note:

Source of reference values: art.44 Regulation on conditions in terms of health and safety items of general use which can be placed on market (Official Gazette of SFRJ 26/83, 61/84, 56/86, 50/89, 18/91, 60/2019-other Regulation and 78/2019-other Regulation).

For the Sensory Testing Department: Biljana Nemedi MS

Microbiological testing:

Analysis	Result	Reference data	Methods	
Sulphitoreducing clostridiae (37°C) [/1cm^3 rinse swab taken from 25cm^2 surfaces counting on 1cm^2]	Not detected	Not detected	SRPS ISO 15213:2011	Counting
Salmonella [/1cm^3 rinse swab taken from 25cm^2 surfaces counting on 1cm^2]	Not detected	Not detected	SRPS EN ISO 6579-1:2017 osim Aneksa D; SRPS EN ISO 6579-1:2017/A1:2020	Detection
Coagulase-positive staphylococci [/1cm^3 rinse swab taken from 25cm^2 surfaces counting on 1cm^2]	Not detected	Not detected	SRPS EN ISO 6888-3:2009	Detection and counting
Suspect Escherichia coli [/1cm^3 rinse swab taken from 25cm^2 surfaces counting on 1cm^2]	Not detected	Not detected	SRPS ISO 7251:2018	Detection
Proteus [/1cm^3 rinse swab taken from 25cm^2 surfaces counting on 1cm^2]	Not detected	Not detected	VM/MET 316 [1]	Isolation and identification
Total plate count (30°C) [CFU/1cm^3 rinse swab taken from 25cm^2 surfaces counting on 1cm^2]	0	max 10	SRPS EN ISO 4833-1:2014; SRPS EN ISO 4833-1:2014/A1:2022	Counting
Listeria monocytogenes (37°C) [/1cm^3 rinse swab taken from 25cm^2 surfaces counting on 1cm^2]	Not detected	-	SRPS EN ISO 11290-1:2017	Detection

[1]Outside the scope of accreditation

Note:

Source of reference values: art.6 Regulation on conditions in terms of health and safety items of general use which can be placed on market (Official Gazette of SFRJ 26/83, 61/84, 56/86, 50/89, 18/91, 60/2019-other Regulation and 78/2019-other Regulation).

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Results of physical-chemical testing:
Content of elements in the tested sample:

Analysis	Result	Expanded measurement uncertainty 9)	Reference data	Methods	
Lead (Pb) [mg/kg]	0,584	± 0,1460	max 10	SRPS CR 13695-1:2008	ICP/MS
Arsenic (As) [mg/kg]	0,032	± 0,0080	max 3	VM/MET 873	ICP/MS

9)Extended measurement uncertainty is expressed as a combined standard measurement uncertainty increased by the coverage factor k = 2 for a confidence level of approximately 95%

Note:

Source of reference values: art.63 (paragraph 1) Regulation on conditions in terms of health and safety items of general use which can be placed on market (Official Gazette of SFRJ 26/83, 61/84, 56/86, 50/89, 18/91, 60/2019-other Regulation and 78/2019-other Regulation).

Metal content in packaging:

Analysis	Result	Expanded measurement uncertainty 9)	Methods	
Lead (Pb) [mg/kg]	0,584	± 0,1460	SRPS CR 13695-1:2008 1)	ICP/MS
Cadmium (Cd) [mg/kg]	0,06	± 0,015	VM/MET 873 1)	ICP/MS
Mercury (Hg) [mg/kg]	< 0,001 2)	± 25%	VM/MET 873 1)	ICP/MS

1)Outside the scope of accreditation; 2)Limit of quantification (LOQ); 9)Extended measurement uncertainty is expressed as a combined standard measurement uncertainty increased by the coverage factor k = 2 for a confidence level of approximately 95%

Results of physical-chemical testing

Analysis	Result	Methods	
Chrome (Cr^{6+}) [mg/kg]	3,35	Q5-04-541	Spectrophotometry

The test was performed within the scope of accreditation in the laboratory under accreditation number 01-073.

Results of physical-chemical testing:

Analysis	Result	Reference data	Methods	
2,4,4'-threechlorobiphenyl [mg/kg]	< 0,01 2)	max 10	Q5-04-544	GC/MS
2,2',5,5'- tetrachlorobiphenyl [mg/kg]	< 0,01 2)		Q5-04-544	GC/MS
2,2',4,5,5'- pentachlorobiphenyl [mg/kg]	< 0,01 2)		Q5-04-544	GC/MS
2,2',3,4,4',5- hexachlorobiphenyl [mg/kg]	< 0,01 2)		Q5-04-544	GC/MS
2,2',4,4',5,5'- hexachlorobiphenyl [mg/kg]	< 0,01 2)		Q5-04-544	GC/MS
2,2',3,4,4',5,5'- pentachlorobiphenyl [mg/kg]	< 0,01 2)		Q5-04-544	GC/MS
2,3',4,4',5- pentachlorobiphenyl [mg/kg]	< 0,01 2)		Q5-04-544	GC/MS

2)Limit of quantification (LOQ)

Note:

The test was performed within the scope of accreditation in the laboratory under accreditation number 01-073.

Source of reference values: art.63 Regulation on the conditions in terms of health suitability of items of general use that can be put into circulation (Official Gazette of SFRJ 26/83, 61/84, 56/86, 50/89, 18/91, 60/2019-other Regulation and 78/2019-other Regulation)

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OBR 103 Izdanje 22 od 22.05.2023.

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Analysis	Result	Reference data	Methods	
Formaldehid [mg/dm^2]	< 0,075 [2)]	max 0,5	Q5-04-539	Spectrophotometry

[2)]Limit of quantification (LOQ)

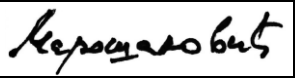
Note:

The test was performed within the scope of accreditation in the laboratory under accreditation number 01-073.

Source of reference values: art.63 Regulation on the conditions in terms of health suitability of items of general use that can be put into circulation (Official Gazette of SFRJ 26/83, 61/84, 56/86, 50/89, 18/91, 60/2019-other Regulation and 78/2019-other Regulation)

_____[118)]Curaković M., Vujković I., Gvozdenović J., Lazić V.: Control of packaging materials and packaging,1992

Results approved by:

PhD Ivana Kažić, Specialist in Food Microbiology	
Biljana Marošanović MS Spec. in Tox.Chemistry. Director of Instrumental Analysis Dpt	

Report approved by:

Predrag Vulićević MS, Specialist in Sanitary Chemistry	

Statement:

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6. Test location in SP LABORATORIJA: Industrijska 3, 21220 Bečej
7. According to art.25 Law on business company („Official Gazette of RS“ no 36/2011, 99/2011, 83/2014-other law, 5/2015, 44/2018, 95/2018, 91/2019 and 109/2021) test report is valid without stamp.

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OBR 103 Izdanje 22 od 22.05.2023.

Faculty of Veterinary Medicine
University of Belgrade
Department of Radiology and
Radiation hygiene
Bulevar Oslobođenja 18
Belgrade
Serbia

Client
SP LABORATORIJA AD Bečej
Industrijska zona bb
21220 Bečej
Tel/fax: 021-6912-545

ATC
01-122
ЛАБОРАТОРИЈА
ЗА ИСПИТИВАЊЕ
ISO/IEC 17025

Department of Radiology and
Radiation hygiene
Tel.+381 62 8868229
E-mail: radijacija@vet.bg.ac.rs

SUBJECT: EXAMINATION REPORT NO. 2023/1334

SAMPLE ACCEPTANCE DATE: 22.08.2023.
SAMPLE ANALYSES: 22.08.2023.
DATE OF ISSUING REPORT: 22.08.2023.

According to your requirement No. 29400 dated 18.08.2023., the examination regarding the presence of radionuclides is done within the delivered sample and the following report has been made:

1. **Sample:**
   R2308 3376 SINGLE-LAYER AND MULTILAYER PAPER BAGS WITH PRINT AND WITHOUT PRINT FOR FOOD PACKING PRODUCTS IN QUANTITY 5kg, 10kg, 15kg, 20kg, 25kg, 30kg, 40kg i 50kg
2. **Work Order No.: R23-19045**
3. **Quantity/mass:/**
4. **Country of Origin: /**
5. **Importer:/**
6. **Vehicle number:/**
7. **Sampler:/**
8. **Link to sampling proceedings:/**
9. **Investigation method:** The sample preparation included homogenization and weighing into a suitable container (IAEA TRS 295). The examination has been done by the method of low-level gamma spectrometry on HPGe detector based on IAEA TRS 295. For detector calibration referents standards were used.
10. **Results:**

Radionuclide content in the sample (Bq /kg)		**ACCORDING TO REGULATIONS**
^{137}Cs	< 0.6	**YES**
^{40}K	< 34	
^{238}U	< 25	
^{226}Ra	< 39	

11. Conclusion: The results of measured radioactivity in the delivered sample **show no radionuclide presence beyond the regulations** (Official Gazette RS 36/2018 of 10.05.2018.).

The examination has been done by the method of low-level gamma spectrometry on HPGe detector based on IAEA Technical Report 295.

Deliver to:
1.Client
2.Archive

Examiner:
Dr Gordana Pantelić
dipl. fizičar
Gordana Pantelić

FAKULTET VETERINARSKE MEDICINE UNIVERZITETA U BEOGRADU
KATEDRA ZA RADIOLOGIJU I RADIJACIONU HIGIJENU

Head of Department:
Redovni profesor
Dr sci. vet. med. **Nikola Krstić**
Zahvaljujući

1. It is forbidden to distrubuted analysis results without approval from Faculty of veterinary medicine, Department for Radiology and Radiation Hygiene
2. Results are valid only for examined sample.