

Corbeo NV
Poldergotestraat 22
9240 Zele
BELGIUM

Fürth, 13 January 2023

TEST REPORT No. FUFDCP2022-08361 - Final

This test report replaces invariably interim test report No. FUFDCP2022-08361 – Interim from 11 January 2023.

Date sample received: 17 November 2022
Testing period: 21 November 2022 - 13 January 2023
Technical Director: Kerstin Scharrer
Food contact testing according to client's request
Testing according to: Reg(EC)1935/2004

Abbreviations

* = Test method is not part of the accreditation scope
** = Outsourcing
n.a. = not applicable
n.d. = not determinable (< LoQ)
LoQ = limit of quantification
CS = Combined sample
P = passed
F = failed
SML = specific migration limit
SMR = specific migration reference value
SRL = specific release limit
ND = not detectable

Sample description: TA 50M BIRAM bleached flax , color white, material: flax

The above mentioned sample passed all the test in this report and is therefore proofed to be used for foodcontact.



1. Sensory Testing

Test method: § 64 LFGB L 00.90-6:2015-06

Testing conditions: Water_{demin} (2h / 100°C), total immersion of 1g / 100ml

Evaluation (average)

Parameter	Results
Appearance of simulant	0
Odour of simulant	1.5
Taste of simulant	2 (astringent, plastic, lacquer, paper)
Status	passed

Evaluation scale:

0 = no aberration, neutral

1 = very slight aberration, barely perceivable

2 = slight aberration

3 = significant aberration

4 = strong aberration

Requirement: no significant deterioration (evaluation level: max. 2.5)

2. Formaldehyde in Water Extract

Test method: DIN EN 647:1994-01 (HWE) / 12.15.01.02:2017-03

LoQ: 1.0 mg/kg

Parameter	Result
Formaldehyde mg/kg CAS: 50-00-0	n.d.
Status	passed

Requirement: max. 15 mg/kg

3. Peroxides

Test method: BfR-BII XV/C (2003-05) mod*

Parameter	Result
Peroxides	no positive reaction
Status	passed

Requirement: no positive reaction

4. Extractable Heavy Metals in Water Extract

Test method: DIN EN 647:1994-01 (HWE) / ICP-OES: DIN EN ISO 11885:2009-09 + AFS (Hg): DIN EN ISO 17852:2008-04 + CrVI: DIN EN ISO 10304-3:1997-11 (IC-UV/VIS)

Results in µg/l simulant:

Parameter	CAS	Results	LoQ (mg/l)	Requirement (mg/l)
Aluminium	7429-90-5	n.d.	0.100	1
Cadmium	7440-43-9	n.d.	0.002	0.005
Lead	7439-92-1	n.d.	0.010	0.01
Mercury	7439-97-6	n.d.	0.0002	---
Chromium VI	18540-29-9	n.d.	0.005	ND
Status		passed		

5. Total Content of Anthraquinone

Test method: Extraction with organic solvent / GC-MS*

LoQ: 0.01 mg/kg

Parameter	Result
Anthraquinone mg/kg CAS: 84-65-1	n.d.
Status	passed

Requirement: not detectable

6. Pesticides food contact in mg/kg

Test method: DIN 38407-F2 1993-02 (modif.)

LoQ: 0.3 mg/kg

Parameter	Results
Allethrin	n.d.
1-Chlornaphthalin	n.d.
2-Chlornaphthalin	n.d.
Chlorpyrifos	n.d.
Chlorthalonil	n.d.
Cyfluthrin	n.d.
Cypermethrin	n.d.
DDE	n.d.
DDD	n.d.
Diazinon	n.d.
Dichlorfluanid	n.d.
Dieldrin	n.d.
Endosulfan, α	n.d.
Endosulfan, β	n.d.
Fenitrothion	n.d.

Parameter	Results
Fenthion	n.d.
Fenvalerat	n.d.
Furmecycloxy	n.d.
Hexachlorbenzol	n.d.
Lindan	n.d.
Malathion	n.d.
Methoxychlor	n.d.
Parathion	n.d.
Pentachloranisol	n.d.
Permethrin	n.d.
Piperonylbutoxid	n.d.
Propiconazol	n.d.
Popoxur	n.d.
Tebuconazol	n.d.
Tetrachlorvinylphos	n.d.
Tetramethrin	n.d.
Tolylfluand	n.d.

7. Pesticides in mg/kg

Test method: Test method: DIN 38407-F2 1993-02 (mod.)

Limit of quantification: 0.3 mg/kg

Substance name	Abbrev.		CAS-No.	Results
Acetamiprid	--		135410-20-7 / 160430-64-8	n.d.
Aldicarb	--		116-06-3	n.d.
Aldrin	--		309-00-2	n.d.
Azinphos-ethyl	--		2642-71-9	n.d.
Azinphos-methyl	--		86-50-0	n.d.
Bromophos-ethyl	--		4824-78-6	n.d.
Captafol	--		2425-06-1	n.d.
Carbaryl	--		63-25-2	n.d.
Chlorbenzilate	--		510-15-6	n.d.
Chlordane	--		57-74-9	n.d.
Chlordimeform	--		6164-98-3	n.d.
Chlorfenvinphos	--		470-90-6	n.d.
Clothianidin	--		210880-92-5	n.d.
Coumaphos	--		56-72-4	n.d.
Cyfluthrin	--		68359-37-5	n.d.
Cyhalothrin	--		91465-08-6	n.d.
Cypermethrin	--		52315-07-8	n.d.
Butylphosphorthioat	DEF		78-48-8	n.d.
Deltamethrin	--		52918-63-5	n.d.
2,4-Dichlorodiphenyldichlorethane	DDD	2,4- DDD	53-19-0	n.d.

Substance name	Abbrev.	CAS-No.	Results
4,4-Dichlorodiphenyldichloroethane	4,4- DDD	72-54-8	n.d.
2,4-Dichlorodiphenyldichloroethene	DDE	2,4- DDE	3424-82-6
4,4-Dichlorodiphenyldichloroethene		4,4- DDE	72-55-9
2,4-Dichlorodiphenyltrichloroethane	DDT	2,4-DDT	789-02-6
4,4-Dichlorodiphenyltrichloroethane		4,4-DDT	50-29-3
Diazinon	--	333-41-5	n.d.
Dicrotophos	--	141-66-2	n.d.
Dieldrin	--	60-57-1	n.d.
Dimethoate	--	60-51-5	n.d.
Dinoseb and salts	--	88-85-7	n.d.
Dinotefuran	--	165252-70-0	n.d.
Endosulfan, α -	--	959-98-8	n.d.
Endosulfan, β -	--	33213-65-9	n.d.
Endrin	--	72-20-8	n.d.
Esfenvalerate	--	66230-04-4	n.d.
Fenvalerate	--	51630-58-1	n.d.
Heptachlor	--	76-44-8	n.d.
Heptachlor epoxide	--	1024-57-3	n.d.
Hexachlorobenzene	--	118-74-1	n.d.
Hexachlorocyclohexane, α -	--	319-84-6	n.d.
Hexachlorocyclohexane, β -	--	319-85-7	n.d.
Hexachlorocyclohexane, δ -	--	319-86-8	n.d.
Imidacloprid	--	105827-78-9/ 138261-41-3	n.d.
Isodrin	--	465-73-6	n.d.
Kelevan	--	4234-79-1	n.d.
Kepone (Chlordecone)	--	143-50-0	n.d.
Lindane	--	58-89-9	n.d.
Malathion	--	121-75-5	n.d.
Metamidophos	--	10265-92-6	n.d.
Methoxychlor	--	72-43-5	n.d.
Mirex	--	2385-85-5	n.d.
Monocrotophos	--	6923-22-4	n.d.
Nitepyram	--	150824-47-8	n.d.
Parathion	--	56-38-2	n.d.
Parathion-methyl	--	298-00-0	n.d.
Perthane	--	72-56-0	n.d.
Phosdrin (Mevinphos)	--	7786-34-7	n.d.
Phosamidone	--	13171-21-6	n.d.
Propethamphos	--	31218-83-4	n.d.
Profenophos	--	41198-08-7	n.d.
Strobane	--	8001-50-1	n.d.
Quinalphos	--	13593-03-8	n.d.
Telodrin	--	297-78-9	n.d.
Thiacloprid	--	111988-49-9	n.d.

Substance name	Abbrev.	CAS-No.	Results
Thiamethoxam	--	153719-23-4	n.d.
Toxaphene (Camphechlor)	--	8001-35-2	n.d.
Trifluralin	--	1582-09-8	n.d.

8. PACS in mg/kg

Test method: DIN 38407-F2 1993-02 (mod.)

Limit of quantification: 0.3 mg/kg

Substance name	Abbrev.	CAS-No.	Results
2,4,5-trichlorophenoxy-acetic acid (2,4,5-T)	--	93-76-5	n.d.
2,4-dichlorophenoxy-acetic acid (2,4-D)	--	94-75-7	n.d.
Dichlorprop	--	120-36-5	n.d.
(2-Methyl-4-chlorophenoxy)acetic acid	MCPA	94-74-6	n.d.
4-(2-Methyl-4-chlorophenoxy)butyric acid	MCPB	94-81-5	n.d.
Mecoprop	--	93-65-2	n.d.

9. Chlorophenols in mg/kg

TriCP= Trichlorophenols; TeCP= Tetrachlorophenols; PCP= Pentachlorophenols

Test method: 12.01.10.01_Chlorophenols (2021-08) and DIN 50009 (2021-01) resp.

Substance name	CAS-No.	LOQ	Results
2,3,4-TriCP	15950-66-0	0.1	n.d.
2,3,5-TriCP	933-78-8	0.1	n.d.
2,3,6-TriCP	933-75-5	0.1	n.d.
2,4,6-TriCP	88-06-2	0.1	n.d.
3,4,5-TriCP	609-19-8	0.1	n.d.
2,4,5-TriCP	95-95-4	0.1	n.d.
2,3,4,6-TeCP	58-90-2	0.1	n.d.
2,3,5,6-TeCP	935-95-5	0.1	n.d.
2,3,4,5-TeCP	4901-51-3	0.1	n.d.
PCP	87-86-5	0.1	n.d.

10. Biphenyl in mg/kg

Test method: DIN 38407-F2 1993-02 (mod.)

Limit of quantification: 10 mg/kg

Parameter	Result
Biphenyl mg/kg CAS: 92-52-4	n.d.

11. Migration of Antimicrobial Substances

Test method: DIN EN 1104: 2019-01**

Parameter	Results
Fungicidal substances Test strain: <i>Aspergillus niger</i>	no migration of fungicidal substances
Antibacterial substances Test strain: <i>Bacillus subtilis</i>	no migration of antibacterial substances
Status	passed

Requirement: no migration of fungicidal/antibacterial substances

The test was performed by an approved subcontractor laboratory which is part of the Intertek Group.

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