



Test Report

No.T52310302252TC

Date: AUG 11, 2023

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HUBEI GOLDEN RING GREEN FIBER CO.,LTD
NO.1 LVXIAN RD. TAIPINGDIAN TOWN, FANCHENG DISTRICT,
XIANGYANG CITY, HUBEI PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

LYOCELL FIBER

Manufacturer : HUBEI GOLDEN RING GREEN FIBER CO.,LTD
Spec. : 1.1DTEX-6.67DTEX, RAW WHITE, BRIGHT, STANDARD & SHORTCUT FIBER
Material&Mark : 100% CELLULOSE

SGS Ref. No. : WHIN2307000466PL01
Sample Receiving Date : JUL 31, 2023
Testing Period : JUL 31, 2023 TO AUG 11, 2023



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Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1.	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31.	--
	a) Sensorial Examination Odour and Taste Test	PASS
2.	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and Section 31, and BfR recommendation.	--
	a) Textile (Natural Fibre) – Formaldehyde	PASS
	b) Textile (Natural Fibre) – Pentachlorophenol (PCP), Tetrachlorophenol (TeCP) and Trichlorophenol (TriCP) content	PASS
	c) Textile – Migration of Fluorescent Whitening Agent	PASS
3.	Article 3 of European Regulation No. 1935/2004.	--
	a) Sensorial Examination - Odour and Taste Test	PASS
4.	Article 3 of European Regulation No. 1935/2004	--
	a) Textile – Formaldehyde	PASS
	b) Textile – Pentachlorophenol (PCP), Tetrachlorophenol (TeCP) and Trichlorophenol (TriCP) content	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center

Qu Ping Kiky
Dept. Manager



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Results:

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31.

a) Sensory Examination – Odour and Taste Test

Method : With reference to DIN10955:2023.

Test Condition : 23°C for 24 hours

Test media: Plain Bread

No. of panelist: 6

Test Item	Result	Permissible Limit
	1	
Sensorial examination odour (Intensity scale)	0	< 3
Sensorial examination taste (Intensity scale)	0	< 3
Comment	PASS	--

Sample Description :

1. White fiber

Note : Intensity scale (rounded at 0.5) :

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard



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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and Section 31, and BfR recommendation.

a) Textile (Natural Fibre) – Formaldehyde

Method : As specified in ISO 14184-1:2011 – Textile – Determination of Formaldehyde Part 1: Free and hydrolyzed formaldehyde (water extraction method).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit (mg/kg)
	1		
Formaldehyde Content	ND	16	16
Comment	PASS	--	--

Sample Description:

1. White fiber

Note : 1. mg/kg = milligram per kilogram
2. ND = Not Detected

b) Textile (Natural Fibre) – Pentachlorophenol (PCP), Tetrachlorophenol (TeCP) and Trichlorophenol (TriCP) content

Method : With reference to LFGB § 64 BVL B 82.02.8 – 2001.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit (mg/kg)
	1		
Pentachlorophenol (PCP)	ND	0.025	0.05
2,3,5,6-Tetrachlorophenol (2,3,5,6-TeCP)	ND	0.025	--
2,3,4,6-Tetrachlorophenol (2,3,4,6-TeCP)	ND	0.025	--
2,3,4,5-Tetrachlorophenol (2,3,4,5-TeCP)	ND	0.025	--
Sum of TeCP	ND	--	0.05
2,4,6-Trichlorophenol (2,4,6-TriCP)	ND	0.025	--
2,3,6-Trichlorophenol (2,3,6-TriCP)	ND	0.025	--
2,3,5-Trichlorophenol (2,3,5-TriCP)	ND	0.025	--
2,4,5-Trichlorophenol (2,4,5-TriCP)	ND	0.025	--
2,3,4-Trichlorophenol (2,3,4-TriCP)	ND	0.025	--
3,4,5-Trichlorophenol (3,4,5-TriCP)	ND	0.025	--
Sum of TriCP	ND	--	0.2
Comment	PASS	--	--

Sample Description:

1. White fiber

Note : 1. mg/kg = milligram per kilogram
2. ND = Not Detected



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c) Textile – Migration of Fluorescent Whitening Agent

Method : With reference to BS EN 648:2018 Procedure A (23°C for 24 hours)

Simulant Used	Result	Requirement
	1	
Deionized Water	5	Grade 5
3% Acetic Acid (W/V) Aqueous Solution	5	Grade 5
Alkaline Salt Solution	5	Grade 5
Rectified Olive Oil	5	Grade 5
Comment	PASS	--

Sample Description:

1. White fiber

Note: Evaluation is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



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Article 3 of European Regulation No. 1935/2004.

a) Sensorial Examination - Odour and Taste Test

Method : With reference to DIN 10955:2023.
Test Condition : 23°C for 24 hours
Test Media : Plain Bread
No. of Panelist : 6

Test Item	Result	Permissible Limit
	1	
Sensorial examination odour (Intensity scale)	0	< 3
Sensorial examination taste (Intensity scale)	0	< 3
Comment	PASS	--

Specimen Description:

1. White fiber

Note: 1. < = less than
2. °C = degree Celsius
3. Intensity scale (rounded at 0.5) :
0 – no perceptible difference
1 – just perceptible difference
2 – slight difference
3 – marked difference
4 – strong difference

Article 3 of European Regulation No. 1935/2004

a) Textile – Formaldehyde

Method : As specified in BS EN ISO 14184-1:2011 – Textile – Determination of Formaldehyde Part 1:
Free and hydrolyzed formaldehyde (water extraction method).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit (mg/kg)
	1		
Formaldehyde Content	ND	10	10
Comment	PASS	--	--

Sample Description:

1. White fiber

Note: 1. mg/kg = milligram per kilogram
2. ND = Not Detected



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b) Textile – Pentachlorophenol (PCP), Tetrachlorophenol (TeCP) and Trichlorophenol (TriCP) content

Method : With reference to LFGB § 64 BVL B 82.02.8 – 2001.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit (mg/kg)
	1		
Pentachlorophenol (PCP)	ND	0.025	0.05
2,3,5,6-Tetrachlorophenol (2,3,5,6-TeCP)	ND	0.025	--
2,3,4,6-Tetrachlorophenol (2,3,4,6-TeCP)	ND	0.025	--
2,3,4,5-Tetrachlorophenol (2,3,4,5-TeCP)	ND	0.025	--
Sum of TeCP	ND	--	0.05
2,4,6-Trichlorophenol (2,4,6-TriCP)	ND	0.025	--
2,3,6-Trichlorophenol (2,3,6-TriCP)	ND	0.025	--
2,3,5-Trichlorophenol (2,3,5-TriCP)	ND	0.025	--
2,4,5-Trichlorophenol (2,4,5-TriCP)	ND	0.025	--
2,3,4-Trichlorophenol (2,3,4-TriCP)	ND	0.025	--
3,4,5-Trichlorophenol (3,4,5-TriCP)	ND	0.025	--
Sum of TriCP	ND	--	0.2
Comment	PASS	--	--

Sample Description:

1. White fiber

Note: 1. mg/kg = milligram per kilogram
2. ND = Not Detected

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For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$



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