

# Rapport d'essais *Test report*

Rouen, le 16 juin 2022  
 CL22-01521 Révision 01  
 Page 1 sur 11

**Produit / Product :** PAPER STRAIGHT COCKTAIL STRAW  
**Projet / Project :** Convention  
**Prélevé le / Sampling date :** 18/03/22  
**Prélevé à / Sampling location :** METRO-MAINZ - GERMANY  
**Devis / Price offer :** Convention : 22-7717  
**Fabricant / Manufacturer :** CHANGYA  
**Gencod / Gencod :** 4337182128762  
**N° de lot / Batch No. :** PO:819256.165  
**Code 1 / Code 1 :** 378585  
**Marque / Brand :** CHANGYA  
**Date fiche technique / Date of technical sheet :** NOUVEAU

**METRO AG**  
 Schlueterstrasse 1

DE-40235 DÜSSELDORF  
 ALLEMAGNE



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Tests ou conformité demandés <i>Tests requested / Standards</i>	Conclusion <i>Conclusion</i>
<b>Papier carton : recommandation allemande BfR XXXVI+fiche DGCCRF matières organiques -fibres végétales</b> <i>Paper cardboard: German recommandation BfR XXXVI + DGCCRF file organic mater - vegetal fiber</i>	<b>Non-Conforme</b>  FAIL
<b>Aptitude au contact alimentaire : Règlement 1935/2004/CE art. 3, décret 2007/766 uniquement pour les essais réalisés et sur les parties testées</b> <i>Food contact compliance : 1935/2004/CE regulation art. 3, 2007/766 Decree only on items tested and for analysis performed</i>	<b>Non-Conforme</b>  FAIL
<b>Notation / Level</b>	C

Non conforme note C

Les incertitudes de mesure ne sont pas prises en compte pour conclure sur la conformité des analyses sauf demande spécifique du client

*Uncertainties are not taken into account to define compliance on analysis except on specific customer request*

Christelle FRANCONVILLE Expert Technique Chimie-Contact Alimentaire <i>Chemistry-Food contact Technical Expert</i>	Tel. :	
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Matériaux au contact : papier carton  
*Foodcontact materials : cardboard paper*

Début des essais / *beginning of tests* : 30-03 + 14-06-2022

Fin des essais / *end of tests* : 16-05 + 16-06-2022

Lavage de l'article avant test / *pre-wash article before test* : NON / NO (selon demande client ou aucune spécif. / *according to client request or no specification*)

**REMARQUE : L'interdiction du Bisphénol A, dans tous les articles destinés au contact alimentaire, est effective depuis le 1er Janvier 2015 (en plus de la 1ère échéance du 01/01/2013 existante déjà pour certains articles de puériculture).**

*The ban of the use of BPA in all articles in contact with foods is effective since the 1st January 2015 (in addition with the first term of the 1st January 2013 for some childcare articles)*

**Pour les papiers cartons,**

**# Conforme** = Aucune valeur en BPA dans le(s) matériau(x) supérieure à la limite indicative DGCCRF de 2 mg/kg ou 2000 µg/kg, n'a été quantifiée.

*# Pass: no BPA value in the material(s) exceeding the indicative DGCCRF limit of 2 mg/kg, was quantified.*

**Pour plus d'informations, voir avec Mr G. Dommerc et Mme P. Lambert.**

*For more details, please contact Mrs P. Lambert and Mr G. Dommerc.*

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## Teneur en pentachlorophénol (PCP) (1)

EN 15320

### Content of pentachlorophenol PCP (1)

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
		Résultats <i>Results</i>		
	Limites <i>Limits</i>			
Teneur en pentachlorophénol PCP <i>PCP content</i>	< 0,15 mg/kg	< 0,1 mg/kg		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

## Transfert d'antimicrobiens (1)

EN 1104 (2018)

### Antimicrobial (bactericidal) components transfert (1)

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
		Résultats <i>Results</i>		
	Limites <i>Limits</i>			
Zone d'inhibition : souche Bacillus subtilis <i>Zone of inhibition: stock Bacillus subtilis</i>		Absence <i>Absence</i>		
Zone d'inhibition : souche Aspergillus niger <i>Zone of inhibition : stock Aspergillus niger</i>		Absence <i>Absence</i>		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

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## Migration spécifique : 61 Amines Aromatiques Primaires par HPLC-MS-MS (1)

EN 645 ou EN 647 - LC/MS/MS

*Extractable 61 primary aromatic amines by HPLC-MS-MS (1)*

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
<i>Simulant</i>		Water		
Durée de migration <i>Migration duration</i>		2h		
Température de migration <i>Migration temperature</i>		80 °C		
Résultat de migration de 61 Amines Aromatiques Primaires <i>specific 61 PAA migration result</i>	< 0,002 mg/kg	<0,002 mg/kg		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

## Azurants optiques : solidité au dégorgeement dans 2 simulants (eau et huile)

 EN 648 (2018 - papiers fibres de verre  
grammage 75g/m<sup>2</sup>)

*Optical brightening agents: solidity with discharging with 2 simulants (water and olive oil)*

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
Méthode avec le simulant huile d'olive <i>Method with the oil simulant</i>		D - "courte" durée chaude		
Durée avec le simulant huile d'olive <i>Time with the oil simulant</i>		30 min. 120 +/- 3°C		
Dégorgeement dans l'huile d'olive <i>Discharging in the olive oil</i>	> 5	5,0		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

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**Azurants optiques : solidité au dégorgeement dans l'acide acétique 3%**  
*Optical brightening agents: solidity with discharging with 3% acetic acid*

EN 648 (2018 - papiers fibres de verre  
 grammage 75g/m<sup>2</sup>)

		CL22-01521.002		
		PAPER STRAIGHT COCKTAIL STRAW		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
Méthode avec le simulant eau <i>Method with the water simulant</i>		B - "moyenne" durée ambiante		
Durée avec le simulant eau <i>Time with the water simulant</i>		4h 23°C		
Dégorgeement dans l'acide acétique 3% <i>Discharging in the 3% acetic acid</i>	> 5	3,0		
Conclusion <i>Conclusion</i>		Non Conforme <i>Fail</i>		

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## Colorants : solidité au dégorgeement avec 2 simulants (Ac.3% et huile)

*Dyes : solidity with discharging with 2 simulants (3% Ac. and oil)*

EN 646 (2018 - papiers fibres de verre grammage 75g/m2)

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
Méthode avec le simulant acide acétique 3% <i>Method with the acid simulant</i>		D - "courte" durée chaude		
Méthode avec le simulant huile d'olive <i>Method with the oil simulant</i>		D - "courte" durée chaude		
Durée avec le simulant acide acétique 3% <i>Time with the acid simulant</i>		30 min. 90 +/- 3°C		
Durée avec le simulant huile d'olive <i>Time with the oil simulant</i>		30 min. 120 +/- 3°C		
Dégorgement avec l'acide acétique 3 % <i>Discharging with the 3% acetic acid</i>	> 5	5,0		
Dégorgement avec l'huile d'olive <i>Discharging with the olive oil</i>	> 5	5,0		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

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## Formaldéhyde extractible

*Extractable Formaldehyde*

EN 645 ou EN 647 / EN 1541

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
		Résultats <i>Results</i>		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
Teneur en formaldéhyde extrait <i>Content extracted formaldehyde (mg/dm<sup>2</sup>)</i>	< 1 mg/dm <sup>2</sup>	<0,1 mg/dm <sup>2</sup>		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

## Teneur en métaux extractibles

*Content of extractable metals*

Extraction aqueuse selon EN645 ou EN647 - Dosage ICP-MS

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
		Résultats <i>Results</i>		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
Teneur en Plomb extractible <i>Extractible lead</i>	< 3 mg/kg	<3 mg/kg		
Teneur en Cadmium extractible <i>Extractible cadmium</i>	< 0,5 mg/kg	<0,5 mg/kg		
Teneur en Mercure extractible <i>extractible mercury</i>	< 0,3 mg/kg	<0,3 mg/kg		
Teneur en Chrome extractible <i>Extractible Chromium</i>		<0,25 mg/kg		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

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## Teneur en Bisphénol A

*Bisphenol A Content*

Loi Française 2012-1442 - extraction

Acétonitrile 24h 23°C /analyses par

LC-MS-MS

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
<b>Limites</b> <i>Limits</i>		<b>Résultats</b> <i>Results</i>		
teneur en Bisphénol A <i>Bisphenol A content</i>		<100 µg/kg		
Conclusion <i>Conclusion</i>		Conforme #		

## Teneur en métaux extractibles (Pb, Cd, Al)

*Content of extractable metals (Pb, Cd, Al)*

Cold use EN 645, Hot use EN647

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
<b>Limites</b> <i>Limits</i>		<b>Résultats</b> <i>Results</i>		
Teneur en Plomb extractible <i>Extractible lead</i>	< 0,01 mg/kg	<0,005 mg/kg		
Teneur en Cadmium extractible <i>Extractible cadmium</i>	< 0,005 mg/kg	<0,001 mg/kg		
Teneur en Aluminium extractible <i>extractible Aluminum</i>	< 1 mg/kg	3,9 mg/kg		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

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**5 extractables PAH (polycyclic aromatic hydrocarbures):**

**B(a)A-CHR-B(b+j)F-B(a)P**

*5 extractables PAH (polycyclic aromatic hydrocarbures):*

*B(a)A-CHR-B(b+j)F-B(a)P*

Fiche DGCCRF matières végétales

-Extraction EN 15519 (2h 60°C Ethanol

95%) - Dosage GC/MS

		CL22-01521.001		
		PAPER STRAIGHT		
		COCKTAIL STRAW		
		<b>Limites</b> <i>Limits</i>	<b>Résultats</b> <i>Results</i>	
Benzo(a)anthracène <i>Benzo(a)anthracène</i>	< 0,001 mg/kg	<0,001 mg/kg		
Chrysène <i>Chrysène</i>	< 0,001 mg/kg	<0,001 mg/kg		
Benzo(b)fluoranthène+Benzo(j)fluoranthène <i>Benzo(b)fluoranthène+Benzo(j)fluoranthène</i>	< 0,001 mg/kg	<0,001 mg/kg		
Benzo(a)pyrène <i>Benzo(a)pyrène</i>	< 0,001 mg/kg	<0,001 mg/kg		
somme <i>Somme</i>	< 0,001 mg/kg	<0,001 mg/kg		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

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## Teneurs extractibles en Benzophénone et dérivés (1)

*Extractable contents of benzophenone and derivatives (1)*

Fiche DGCCRF des matières végétales  
+ EN 15519 (2h 60°C Ethanol 95%)

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
Teneur en benzophénone <i>Extractible benzophenone</i>		<0,2 mg/kg		
Teneur en 4-hydroxybenzophénone <i>Extractible 4-hydroxybenzophenone</i>		<0,2 mg/kg		
Teneur en 4-méthylbenzophénone <i>Extractible 4-methylbenzophenone</i>		<0,2 mg/kg		
somme des photoinitiateurs <i>sum of photoinitiators</i>	< 0,6 mg/kg	<0,6 mg/kg		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

## Teneurs en 3MCPD et en DCP extractibles (1)

*Contents of extractible 3-monochloro-1,2-propanediol and DCP (1)*

EN 647 ou EN 645 + quantification par  
GC/MS ou ECD

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
Teneur en 3MCPD extractible <i>Extractible 3MCPD</i>	< 12 µg/kg	3,00 µg/kg		
Teneur en DCP extractible <i>Extractible DCP</i>	< 2 µg/kg	<2 µg/kg		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

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## Inertie organoleptique : Test Sensoriel (1)

Règlement 1935/2004/CE Article 3

*Organoleptic inertia : sensory test (flavour and taste) (1)*

		CL22-01521.001		
		PAPER STRAIGHT COCKTAIL STRAW		
	Limites <i>Limits</i>	Résultats <i>Results</i>		
Simulant <i>Simulant</i>		chocolat <i>chocolate</i>		
Moyenne Odeur <i>Average Smell</i>	< 2.5	0,0		
Moyenne Goût <i>Average Taste</i>	< 2.5	1,0		
Conclusion <i>Conclusion</i>		Conforme <i>Pass</i>		

## METHODE

### METHOD

Test réalisé selon la méthode d'analyse de la Norme DIN 10955 et de la Norme EN 1230-2

*test realized according to DIN 10955*

## INTERPRETATION

### INTERPRETATION

L'appréciation porte uniquement sur le discernement d'un goût ou d'une odeur accessoire éventuel. La force du goût ou de l'odeur est évaluée par rapport à l'essai à blanc selon le barème suivant :

*The estimation is only based on the perception of a possible stranger taste or odour. The taste or odour strength is estimated with regard to a blank test according to following scale :*

0 : aucune différence

*0 : no perceptible difference*

1 : différence juste perceptible

*1 : just perceptible difference*

2 : légère différence

*2 : slight difference*

3 : différence prononcée

*3 : marked difference*

4 : forte différence

*4 : strong difference*

L'échantillon est jugé satisfaisant si la note moyenne ne dépasse pas 2,5

*The sample is satisfying when the average mark is below 2.5 points*

## Révisions / Revisions :

01

Revision 01 : client request to retest optical brighteners migration with simulant B and with 4h 23°C condition.

\*\*\* Fin du rapport \*\*\*

\*\*\* End of Report \*\*\*

(1) Test subcontracted in a SGS Laboratory. (2) Test subcontracted in a partner laboratory outside SGS group.

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