

CBA GmbH, Konrad-Zuse-Straße 10, 66459 Kirkel-Limbach

NANO4LIFE EUROPE L.P.®
Vouliagmenis Ave. 318
Ag. Dimitrios - 173 43
Athens

info@cba-analytik.de
www.cba-analytik.de
Telefon: 06841 - 189 97 -0
Telefax: 06841 - 189 97 -17

Kirkel-Limbach, 15.02.2019

Analytical Report:

Internal project code:	336/12/18
Sample receipt date:	24.07.2017
Sample:	glass plates Sample 1: untreated (\cong Blank Sample (BS)) Sample 2: treated with "Nanodiamond Line"
Period of analysis:	21.12.2018 – 15.02.2019
Method Globalmigration/ Migration:	ASU B 80.30-6* (immersed) Migration with simulant A (10% ethanol), simulant B (3% acetic acid), simulant C (50% ethanol) Conditions: 10 days at 40 °C
Methode Screening for non-volatile substances:	GC-MS after extraction of the Migrate

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Analysis result global migration:

Parameter	Sample-BS Sim. A	Sample-BS Sim. B	Sample-BS Sim. C	Dimension
Simulant	10% ethanol	3% acetic acid	50% ethanol	---
Volume (simulant)	225	200	205	mL
Migrated area	1	1	1	dm ²
Globalmigrat	< 0.10	< 0.10	< 0.10	mg/dm ²

Result screening of low volatile substances related to migrated area:

Parameter	Sample-BS Sim. A	Sample-BS Sim. B	Sample-BS Sim. C	Dimension
	10% ethanol	3% acetic acid	50% ethanol	
∑ Hydrocarbons	0.057	0.091	0.084	mg/dm ²
Fatty acids / esters / amides	< 0.01	0.02	0.310	mg/dm ²
∑ Glycols	< 0.01	< 0.01	< 0.01	mg/dm ²

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Die Akkreditierung gilt für die mit * gekennzeichneten Prüfverfahren. Prüfergebnisse beziehen sich ausschließlich auf die uns vorliegenden Prüfmuster. Prüfberichte dürfen ohne schriftliche Genehmigung der CBA GmbH nicht in Auszügen veröffentlicht werden.

Geschäftsführung: Ingrid Graf, Holger Graf

Registergericht: Homburg HRB 3760, Steuer-Nr.: 075/107/00389, Ust-ID-Nr.: DE 138344417

Bankverbindung: Kreissparkasse Saarpfalz, IBAN: DE 25 594 500 10 10 10 664 504, BIC: SALADE 51 HOM

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Evaluation:

The samples are glass plates, Sample 1 is uncoated and Sample 2 is coated with "Nanodiamond Line".

The samples were migrated with 10 % Ethanol as well as 3 % Acetic Acid and 50% Ethanol for 10 days at 40°C. The global migrates for all samples and simulants are below 0.10 mg/dm² and thus below the requirements of max. 10 mg/dm² in accordance with the Commission Regulation (EU) No. 10/2011^a. A residue in each vessel could not be visually detected. A change of the coated sample through migration was not visible since the coating could not be visually detected. The hydrocarbons, glycols and fatty acids/esters/amides detected were present in traces, with the exception of the migration with 50% Ethanol in which fatty acids/esters/amides were found. This is probably due to the handling of the coating since the coating itself does not contain any of the substances found.

Thus, the coating tested meets the requirements of §§30 and 31 LFGB^b as well as those of the Regulation (EC) No 1935/2004^c and the Commission Regulation (EU) No. 10/2011^a on materials and articles intended to come into contact with food.

Composed by:

A handwritten signature in blue ink that reads 'Steffen Wagner'.

Steffen Wagner, Head of sector consumer goods

^a Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food (14.09.2018).

^b German Food and Feed Code of 30 June 2017 (Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch)

^c 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 (07.08.2009)