

**Certificate of test results**

No. 305-306/4000814/2018/C2

Date: 30 November 2018

Name of the client: Metsä Tissue  
 Address of the client: Tehtaankatu 16, P.O Box 300  
 35800 Mänttä, Finland  
 Contact person(s): tuomo.kotilainen@metsagroup.com

**Saga Bake&Cook Family**

SGS Ref. No. / Application No. : 305-306/4000814  
 Tested samples # : Saga Premium Bake&Cook 41 ws, grade 618  
 Saga Premium Bake&Cook 41 ED, grade 654  
 Testing Period : 26 June to 16 July 2018  
 & 22 October to 16 November 2018 (additional US FDA tests)  
 Test report(s) : No. 305-306/4000814A/2018/TR dd. 25 July 2018  
 No. 305-306/4000814B/2018/TR rev1 dd. 19 November 2018

# Remark: According to client's declaration dated 28<sup>th</sup> November 2018, the tested samples are representing and covering all baking & cooking paper products of complete SAGA Bake & Cook family (Process Bake, One Bake, Multi Bake, Premium Bake)

Testing with reference to and based on following country specific requirements and/or recommendations for materials intended to come into contact with food:

*Regulation (EC) No. 1935/2004, BfR recommendations XXXVI and XXXVI/2, LFGB, FDA 21 CFR 176.170 & 176.180, SR 817.0 Federal Act on Foodstuffs and Utility Articles (Foodstuffs Act – FSA) SR 817.02 Ordinance on Foodstuffs and Utility Articles (FUAO), SR 817.023.21 Ordinance of the FDHA on materials and articles, French decrees 2008-1469 & 2007-766, DGCCRF Information note n°2006-156, Austrian Federal Law on safety and further requirements on food, consumption products and cosmetics for the protection of consumers (Food Safety and Consumer Protection Law – LMSVG) and Decreto Ministeriale 21 marzo 1973, Gazzetta Ufficiale della Repubblica Italiana.*

*The tested samples meet the general requirements of the Regulation (EC) No. 1935/2004, FDA 21 CFR 176.170, BfR XXXVI & XXXVI/2 and additional requirements of France, Italy, Switzerland and Austria in all the tested parameters.*

**The following tests were performed in SGS Germany laboratory.**

Tests requested	Test method / Reference	Reference limit / Permissible limit	Comment(s)
Extractable heavy metals (lead, cadmium, chromium)	Water migrate according to EN 647 followed by ICP-MS analysis with reference to EN ISO 17294-2. BfR XXXVI (Paper and Board for Food Contact).	Lead: 10 µg/l Cadmium: 5 µg/l Chromium: 0.004 mg/dm <sup>2</sup> (not detectable Chromium (VI))	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Sensory test for dry food (sensorial examination of odour and taste)	DIN EN 1230-1/2:2010-02 DIN 10955:2004-06	Assessment from 0 to 2.5 (tolerable organoleptic impact)	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Release of optical brighteners	EN 648 using different food simulants (water, 3 % acetic acid, saliva solution, oil)	No migration (a value of 5 on the evaluation scale must be reached)	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Determination of formaldehyde	Water migrate prepared according to EN 647 followed by HPLC-UV analysis	1 mg/dm <sup>2</sup>	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Determination of glyoxal	Water migrate prepared according to EN 647 followed by HPLC-UV analysis	1.5 mg/dm <sup>2</sup>	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018

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<i>Tests requested</i>	<i>Test method / Reference</i>	<i>Reference limit / Permissible limit</i>	<i>Comment(s)</i>
Determination of 3-Monochloro-1,2-propanediol (MCPD) and 1,3-dichloro-2-propanol (DCP)	ASU B 80.56-2 2002-09, determination of consumer product to MCPD and DCP in water extracts BfR XXXVI (Paper and Board for Food Contact)	MCPD: max 12 µg/l DCP: < 2 µg/l	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Isothiazolinones	Water migrate prepared according to EN 647 followed by LC-DAD analysis	See specific limits for each element in the test report	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Determination of pentachlorophenol (PCP)	With reference to DIN EN ISO 15320	Max. 0.15 mg/kg as specified in CoE Res AP(2002)1	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Agar diffusion test (Transfer of antimicrobial constituents)	With reference to DIN EN 1104	No inhibition zone may be observed	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Organotin compounds	With reference to DIN EN ISO 17353	no limit	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018
Thermal stability	With reference to SGS in-house method	satisfactory stable	<b>Pass</b> refer to report no. 305-306/4000814A/2018/TR dd.25 July 2018

**The following tests were performed in SGS Germany and/or France laboratory**

<i>Tests requested</i>	<i>Test method / Reference</i>	<i>Reference limit / Permissible limit</i>	<i>Comment(s)</i>
Polychlorinated Biphenyls (PCB)	With reference to SGS In-house method	Sum. max 2 mg/kg	<b>Pass</b> refer to report no. 305-306/4000814B/2018/TR rev1 dd. 19 November 2018
Extractable heavy metals (mercury)	Water migrate according to EN 647 followed by ICP-MS analysis with reference to EN ISO 17294-2.	max. 0.3 µg/g	<b>Pass</b> refer to report no. 305-306/4000814B/2018/TR rev1 dd. 19 November 2018
Primary Aromatic Amines	Water migrate prepared according to EN 645 followed by LC-MS/MS analysis	Not detectable or < 2 µg/l	<b>Pass</b> refer to report no. 305-306/4000814B/2018/TR rev1 dd. 19 November 2018
Robinson test	With reference to O.I.C.C and EN1230-2.	< 2	<b>Pass</b> refer to report no. 305-306/4000814B/2018/TR rev1 dd. 19 November 2018
Ash content in 525 °C	With reference to SGS In-house method	max. 10 %	<b>Pass</b> refer to report no. 305-306/4000814B/2018/TR rev1 dd. 19 November 2018
Specific migration of lead	With reference to EN-ISO 11885.	max. 0.003 mg/dm <sup>2</sup>	<b>Pass</b> refer to report no. 305-306/4000814B/2018/TR rev1 dd. 19 November 2018

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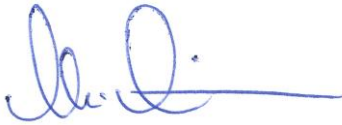
No. 305-306/4000814/2018/C2

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The following tests were performed in SGS US laboratory

Tests requested	Test method / Reference	Reference limit / Permissible limit	Comment(s)
Determination of Amount of Net Chloroform Soluble Extractives	US FDA 21 CFR 176.170	0.5 mg/inch <sup>2</sup>	<p><b>Pass</b> refer to report no. 305-306/4000814B/2018/TR rev1 dd. 19 November 2018</p>

Signed for and on behalf of  
SGS FINLAND OY



Miia Nieminen  
Specialist

\*\*\*\*\* End of Certificate \*\*\*\*\*

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