CHELAB S.R.L.

TEST REPORT N. 16/000318322

date of issue 24/08/2016

Customer ID	0068079/001	Messrs SWIFT SILLIKER (PTY) LTD 7 WARRINGTON RD CLAREMONT 7708 ZA

Sample information

Acceptance number	16.565891.0001
Delivered by	Fedex on 17/08/2016
Receiving Date	17/08/2016
Place of origin	SWIFT SILLIKER (PTY) LTD 7 WARRINGTON RD CLAREMONT 7708 ZA
Sample Description	SSGT 1253. SUNSHINE NUT CO-SPICED BB: JAN/15/18 TIME 13:24 JULIAN DATE CODE: 6203 27227 (SUNSHINE NUT COMPANY)

Sampling information

Sampled by	Customer

Chelab S.r.l, a Mérieux NutriSciences company
Head office: Via Fratta 25 31023 Resana, Italy Phone. + 39 0423.7177 / Fax + 39 0423.715058 www.merieuxnutrisciences.it
VAT nr. 01500900269, R.E.A Treviso n. 156079 Fully paid up € 103.480,00.

ANALYTICAL RESULTS

	Value/Uncertain	Unit of measure	LoQ	LoD	Start/end date of analysis	Op. units	Row
ON EXTRACTED DNA							1
QUALITATIVE RESEARCH OF DNA - BASIC SCREENING Met.: MP 0348 rev 17 2016					19/08/2016- -23/08/2016	01	2
Vegetal DNA amplification control (Chlor.)	present	%		0,0050			3
Promotor screening CAMV-35S	not detectable	%		0,0050			4
Terminator screening Nos	not detectable	%		0,0050			5

Supplement information

Row (2) - Method: MP 0348 rev 17 2016 = The analytical technique applied for the detection of transgenic DNA is Real Time PCR (45 cycles) on DNA extracted from 0.2 g of sample (except for soy lecithin where 2 g are extracted twice). The sequences used for the primary screening are those of promoter of the mosaic virus of cauliflower (CAMV 35s), of gene codifing the nopaline synthetase from Agrobacterium tumefaciens (NOS terminator) and of the amplification control of a DNA sequence present in the chloroplast. The identification of the genetically modified varieties is performed on specific genes.
When for a sample there is an amplification control and the 2 target sequences are not detectable, it means that the sample is negative in relation to them.
A sample is positive when the amplification control, the promoter and the terminator are present.
A not detected amplification control means that the DNA cannot be amplified since it is absent or damaged.
The theoric Limit Of Detection (LOD) of the PCR is 0.005%; this limit has been evaluated by using certified reference materials.
The unit of measure is related to the percentage of genetically modified DNA compared to vegetal species-specific DNA.

Operative units

Unit 01 : Via Fratta Resana (TV)

Biologist responsible	Laboratory Director
Dott. Riccardo Zuccherato Ordine nazionale dei biologi Albo professionale n.059975 sez.A	Dott. Sébastien Moulard

- If not otherwise specified, the uncertainty is extended and has been calculated with a recovery factor k=2 corresponding to a probability interval of about 95%. - LoD is the detection limit and identifies a confidence interval of zero with a probabilty interval of about 99%. - LoQ is the limit of quantification."n.d" is not detected and indicates a value inferior to the LoD. "traces (X)" means a value between LoD and LoQ, this value is indicative. "<x" or ">x" indicate inferior or superior to the measurement field of the test. - If not differently specified, the sums are calculated by lower bound criteria (L.B.). - Registration with the number 7 of the Regional List of the laboratories of the Regione Veneto which perform analyses as regards the procedures for the food safety in food industries, as reported in Annex A of DDR n°73 of 16th January 2008 - If not differently specified the quantitative microbiological tests (excluded MPN) are performed on single repetition and two consecutive dilutions in accordance to ISO 7218:2007/Amd1:2013. - If there is a specification (customer specifications, law limits) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. - If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analysed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure.

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