Comparative study
Report N° 1173196A01 v1

1/ Analysis usually performed as part of a complete analysis : baby diapers

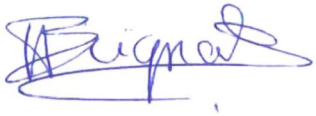
2 February 2021

Quotation 2020/61792 (DSP 765473)
Reference Complete chemical analysis on baby diapers

Tested products

SAMPLE

BARBARA BRIGNATZ, *Study Manager*



Eurofins ATS
505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08
S.A.S AU CAPITAL DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

SUMMARY

1. FOREWORD

The aim of this study is to analyse the chemical substances in baby diapers.

TESTED PRODUCTS:

- **SAMPLE**
  KOOSH/2
  Supplier name: --
  Batch N°: 8AC 17:13 037 02/2020
  Barcode N°: --

The study is based on:

- Dioxins(17) - GC/MS/MS - Internal - (GFU0A)
  SOP Reference: Eurofins GfA
- VOC-Headspace-GC/MS (diapers and femi hyg prod) - Internal - (JR16M)
  SOP Reference: Eurofins Consumer Product Testing GmbH
- PCB(12+6) |envi| materials - GC-MS/MS - Internal - (GFU0B)
  SOP Reference: Eurofins GfA
- Glyphosate, Glufosinate, AMPA in cotton material - LC-MS/MS - Internal Method - (SFW9Y)
  SOP Reference: SOFIA GMBH
- Copper (Cu) - ICP-MS - EN ISO 17294-2 mod. - (FIN0U)
  SOP Reference: Eurofins Consumer Product Testing GmbH
- Nickel (Ni) - ICP-MS - EN ISO 17294-2 mod. - (JR0WJ)
  SOP Reference: Eurofins Consumer Product Testing GmbH
- Cobalt (Co) - ICP-MS - EN ISO 17294-2 mod. - (JR0WL)
  SOP Reference: Eurofins Consumer Product Testing GmbH
- Chromium (Cr) - ICP-MS - EN ISO 17294-2 mod. - (JR0WK)
  SOP Reference: Eurofins Consumer Product Testing GmbH
- Lead (Pb) - ICP-MS - EN ISO 17294-2 mod. - (JR0WI)
  SOP Reference: Eurofins Consumer Product Testing GmbH
- Cadmium (Cd) - ICP-MS - EN ISO 17294-2 mod. - (JR0WG)
  SOP Reference: Eurofins Consumer Product Testing GmbH
- Mercury (Hg) - ICP-MS - EN ISO 17294-2 mod. - (JR0WE)
  SOP Reference: Eurofins Consumer Product Testing GmbH

- Arsenic (As) - ICP-MS - EN ISO 17294-2 mod. - (JR0WF)
  SOP Reference: Eurofins Consumer Product Testing GmbH

- Antimony (Sb) - ICP-MS - EN ISO 17294-2 mod. - (JR0WH)
  SOP Reference: Eurofins Consumer Product Testing GmbH

- Formaldehyde - Spectrophotometry - §64 LFGB B 82.02-1 - (J7004)
  SOP Reference: Eurofins Consumer Product Testing GmbH

- EOX/AOX - (1T3VV)
  SOP Reference: INDIKATOR GmbH

- Polycyclic Aromatic Hydrocarbons (PAHs) in products - GC-MS - AfPS GS 2014:01 PAK - materials - (JR0EC)
  SOP Reference: Eurofins Consumer Product Testing GmbH

- Organochlorine Pesticides and Pyrethroids - GC-ECD - ASU L 00.00-34:2010-09 - (SP101)
  SOP Reference: EUROFINS Dr. Specht & Partner Laboratorien GmbH

- Allergens according to Regulation (EC) No 1223/2009 - GC-MS - EN 16274 mod. - (JJ606)
  SOP Reference: Eurofins Consumer Product Testing GmbH

2. SYNTHESIS/CONCLUSION

None of the searched chemical has been detected in the tested sample.

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CS 50550
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3. PROTOCOL DESCRIPTION

Dioxins(17) |envi| materials - GC-MS/MS - Internal

The aim of this method is to search and to quantify the dioxins (Polychlorinated dibenzodioxin / PCDD) and furans (Polychlorinated dibenzofuran / PCDF). There are 75 PCDD and 135 PCDF but only 17 are recognized as toxics for man:

Tetrachlorodibenzodioxin, Pentachlorodibenzodioxin,Hexachlorodibenzodioxin (3 conformations), Heptachlorodibenzodioxin, Octachlorodibenzodioxin, Tetrachlorodibenzofuran, Pentachlorodibenzofuran (2 conformations), Hexachlorodibenzofuran (4 conformations), Heptachlorodibenzofuran (2 conformations), Octachlorodibenzofuran.

The extraction of PCDD and PCDF is carried out with toluene (Soxhlet method).
The quantification is performed by gas chromatography combined with a mass spectroscopy (high resolution).

The analysis is performed on all the components of the product (on a mix of the whole product).

Remark:
We will note that the limit of quantification of this analysis depends on the quantity of used product. This quantity can slightly increase if we note the presence of interferences during the analysis, which forces the operator to carry out once again the analysis with more material; the consequence is to have a slightly higher limit of quantification.

VOC-Headspace-GC/MS (diapers and femi hyg prod) - HS-GC-MS - Internal

Internal method
Analysis in gas chromatography combined with a mass spectrometer (GC/MS)
LOQ: 0.1 mg/kg

PCB(12+6) |envi| materials - GC-MS/MS - Internal

This analysis consists in determining the PCBs content of the sample according to EN ISO 15318. The method is by GC-MS. Extraction with ethanoic potassium hydroxide and hexane.

Glyphosate, Glufosinate, AMPA in cotton material - LC-MS/MS - Internal Method

The aim of this method is to search and to quantify the glyphosate (herbicide) and the aminomethylphosphonic acid (principal product of the glyphosate degradation). The method is based on an extraction in an acid aqueous solution. The quantification is by liquid chromatography combined with a mass spectroscopy.

The analysis is performed on the absorbent pad.
LOQ: 10 ng/g

Heavy metals - ICP-MS - EN ISO 17294-2 mod.

This test consists in measuring the concentration of heavy metal by an ICP-MS analysis.

Formaldehyde - Spectrophotometry - §64 LFGB B 82.02-1

The aim of this method is to search and quantify the formaldehyde (CMR substance: carcinogenic, mutagenic and reprotoxic). The formaldehyde (or formic aldehyde) is extracted from the product to test with distilled water (at 23°C, during 24h). Then the extracted formaldehyde reacts with acetylacetone and ammonium acetate to create the 3,5-diacetyl-1,4-dihydrolutidine (which is dosed by photometry at 412nm). The final measurement is performed by spectrophotometry.

The analysis is performed on all the components of the product (on a mix of the whole product).

EOX/AOX

The aim of this method is to search and quantify the organic halogen components (Extractable and Adsorbable: EOX and AOX):

Extractable (EOX): the extraction consists to extract a part of organic halogen components with solvent (ethyl acetate). Then, the quantification is carried out by combustion in an oxygen stream coupled to a coulometric micro detection of the organic halogen components.

Adsorbable (AOX): the extraction consists in extracting a part of organic halogen components in 2% sulphuric acid for 8 h at 40 °C. Then, the quantification is carried out by combustion in an oxygen stream coupled to a colorimetric micro detection of the organic halogen components.

The method of colorimetric micro detection determines the quantity of transformed material during an electrolysis reaction measuring the consumed or produced electricity quantity (in coulombs) (during combustion for example) of organic halogen components.

The analysis is performed on all the components of the product (on a mix of the whole product).

Polycyclic Aromatic Hydrocarbons (PAHs) in products - GC-MS - AfPS GS 2014:01 PAK - materials

The aim of this method is to search and to quantify the polycyclic aromatic hydrocarbons (PAHs). The method consists on an extraction of the PAHs with toluene, in an ultrasonic bath, and the quantification is by gas chromatography combined with a mass spectroscopy.

The analysis is performed on all the components of the products (on a mix of the whole product).
LOQ: 0.1mg/kg

Organochlorine Pesticides and Pyrethroids - GC-ECD - ASU L 00.00-34:2010-09

The aim of this method is to search and to quantify the organochlorine pesticides and the pyrethroids (insecticides). These substances are extracted from the product with acetone. Before the extraction, water is added to the sample with a quantity chosen according the natural water content of the sample (during the extraction, the ratio acetone/water has to be constant at 2/1 v/v). For the separation liquid/liquid, sodium chloride and a mix of cyclohexane and ethyl acetate are added to the preparation; the whole is mixed carefully, and then allowed to rest for the separation of the different phases. A determinate part of the organic phase is dried with sodium sulfate then reduced in volume. Identical volumes of ethyl acetate and cyclohexane are added successively to the residue. The residual water is removed by a mix of sodium sulfate and sodium chloride; the solution is then filtered. The extract is purified by chromatography with gel permeation. The obtained eluent goes through a small column of silica gel and is eluted with solvents of increasing polarity. This step is necessary for the determination by gas chromatography using a detector with capture of electrons.

The analysis is performed on all the product components (on a mix of the whole product).

For the LOQ, see appendix.

Allergens according to Regulation (EC) No 1223/2009 - GC-MS - EN 16274 mod.

The aim of this method is to search and quantify the allergens according to the European regulation 1223/2009. The method is based on extraction of allergens from the product to test with tert-butyl-methyl-ether (inert and not volatile solvent). For identification and quantification of allergens, the liquid is injected directly in a system: gas chromatography coupled with mass spectrometer.

The analysis is performed on all the components of the product (on a mix of the whole product).

4. RESULTS

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SYNTHESIS TABLE: CHEMICAL ANALYSIS

Brand	SAMPLE
Manufacturer	--
Denomination	KOOSH/2
Batch n°	8AC 17:13 037 02/2020
Dioxins(17) |envi| materials - GC-MS/MS - Internal	
2,3,7,8-TetraCDD - CAS N°:1746-01-6 pg/g	< 0,0681
1,2,3,7,8-PentaCDD - CAS N°:40321-76-4 pg/g	< 0,0896
1,2,3,4,7,8-HexaCDD - CAS N°:39227-28-6 pg/g	< 0,136
1,2,3,6,7,8-HexaCDD - CAS N°:57653-85-7 pg/g	< 0,186
1,2,3,7,8,9-HexaCDD - CAS N°:19408-74-3 pg/g	< 0,176
1,2,3,4,6,7,8-HeptaCDD - CAS N°:35822-46-9 pg/g	< 0,287
OctaCDD - CAS N°:3268-87-9 pg/g	< 2,08
2,3,7,8-TetraCDF - CAS N°:51207-31-9 pg/g	< 0,186
1,2,3,7,8-PentaCDF - CAS N°:57117-41-6 pg/g	< 0,129
2,3,4,7,8-PentaCDF - CAS N°:57117-31-4 pg/g	< 0,201
1,2,3,4,7,8-HexaCDF - CAS N°:70648-26-9 pg/g	< 0,211
1,2,3,6,7,8-HexaCDF - CAS N°:57117-44-9 pg/g	< 0,194
1,2,3,7,8,9-HexaCDF - CAS N°:72918-21-9 pg/g	< 0,143
2,3,4,6,7,8-HexaCDF - CAS N°:60851-34-5 pg/g	< 0,176
1,2,3,4,6,7,8-HeptaCDF - CAS N°:67562-39-4 pg/g	< 0,201
1,2,3,4,7,8,9-HeptaCDF - CAS N°:55673-89-7 pg/g	< 0,140
OctaCDF - CAS N°:39001-02-0 pg/g	< 0,430
WHO(2005)-PCDD/F TEQ (lower-bound) pg/g	not detected
WHO(2005)-PCDD/F TEQ (upper-bound) pg/g	0,37

Brand	SAMPLE
Manufacturer	--
Denomination	KOOSH/2
Batch n°	8AC 17:13 037 02/2020
VOC-analysis (headspace) - HS-GC-MS - Internal	
Benzene - CAS N°:71-43-2 mg/kg	<0,1
Bromobenzene - CAS N°:108-86-1 mg/kg	<0,1
Bromochloromethane - CAS N°:74-97-5 mg/kg	<0,1
Bromodichloromethane - CAS N°:75-27-4 mg/kg	<0,1
Bromoform - CAS N°:75-25-2 mg/kg	<0,1
2-Chlorotoluene - CAS N°:95-49-8 mg/kg	<0,1
4-Chlorotoluene - CAS N°:106-43-4 mg/kg	<0,1
Dibromochloromethane - CAS N°:124-48-1 mg/kg	<0,1
1,2-Dibromoethane - CAS N°:106-93-4 mg/kg	<0,1
Dibromomethane - CAS N°:74-95-3 mg/kg	<0,1
1,2-Dichlorobenzene (o-) - CAS N°:95-50-1 mg/kg	<0,1
1,3-Dichlorobenzene (m-dichlorobenzene) - CAS N°:541-73-1 mg/kg	<0,1
1,4-Dichlorobenzene (p-) - CAS N°:106-46-7 mg/kg	<0,1
1,1-dichloroethane - CAS N°:75-35-3 mg/kg	<0,1
1,2-dichloroethane - CAS N°:107-06-2 mg/kg	<0,1
1,1-Dichloroethene - CAS N°:75-35-4 mg/kg	<0,1
cis 1,2-Dichloroethene - CAS N°:156-59-2 mg/kg	<0,1
Dichloromethane - CAS N°:75-09-2 mg/kg	<0,1
1,2-Dichloropropane - CAS N°:78-87-5 mg/kg	<0,1
1,3-Dichloropropane - CAS N°:142-28-9 mg/kg	<0,1
2,2-Dichloropropane - CAS N°:594-20-7 mg/kg	<0,1
1,1-Dichloropropene - CAS N°:563-58-6 mg/kg	<0,1
Ethylbenzene - CAS N°:100-41-4 mg/kg	<0,1
Hexachlorobutadiene - CAS N°:87-68-3 mg/kg	<0,1
iso-Propylbenzene - CAS N°:98-82-8 mg/kg	<0,1
Monochlorobenzene - CAS N°:108-90-7 mg/kg	<0,1
Naphthalene - CAS N°:91-20-3 mg/kg	<0,1
n-Butylbenzene - CAS N°:104-51-8 mg/kg	<0,1
n-Propylbenzene - CAS N°:103-65-1 mg/kg	<0,1
p-Isopropyltoluene - CAS N°:99-87-6 mg/kg	<0,1
sec-Butylbenzene - CAS N°:135-98-8 mg/kg	<0,1
tert-Butylbenzene - CAS N°:98-06-6 mg/kg	<0,1
Styrene - CAS N°:100-42-5 mg/kg	<0,1
1,1,2,2-tetrachloroethane - CAS N°:79-34-5 mg/kg	<0,1
1,1,1,2-Tetrachloroethane - CAS N°:630-20-6 mg/kg	<0,1
Tetrachloroethene - CAS N°:127-18-4 mg/kg	<0,1
Tetrachloromethane - CAS N°:56-23-5 mg/kg	<0,1
Toluene - CAS N°:108-88-3 mg/kg	<0,1
trans-Dichloroethene - CAS N°:156-60-5 mg/kg	<0,1
1,2,3-Trichlorobenzene - CAS N°:87-61-6 mg/kg	<0,1
1,2,4-Trichlorobenzene - CAS N°:120-82-1 mg/kg	<0,1
1,1,2-trichloroethane - CAS N°:79-00-5 mg/kg	<0,1
1,1,1-Trichloroethane - CAS N°:71-55-6 mg/kg	<0,1
Trichloroethene - CAS N°:79-01-6 mg/kg	<0,1
Chloroform (Trichloromethane) - CAS N°:67-66-3 mg/kg	<0,1
1,2,3-Trichloropropane - CAS N°:96-18-4 mg/kg	<0,1
1,2,4-Trimethylbenzene - CAS N°:95-63-6 mg/kg	<0,1
1,3,5-Trimethylbenzene (Mesitylene) - CAS N°:108-67-8 mg/kg	<0,1
m-/-p-Xylene - CAS N°:1330-20-7 mg/kg	<0,1
Xylene (ortho-) - CAS N°:95-47-6 mg/kg	<0,1
TVOC mg/kg	<0,1

Brand	SAMPLE
Manufacturer	--
Denomination	KOOSH/2
Batch n°	8AC 17:13 037 02/2020
Chlorine [solid waste] ma.-% - Calculation - EN 14582: 2016-12	
Chlorine (Cl2) total - CAS N°:7782-50-5 Ma.-% Raw Product	< 0,005
PCB(12+6) |envi| materials - GC-MS/MS - Internal	
PCB 77 - CAS N°:32598-13-3 pg/g	< 6,45
PCB 81 - CAS N°:70362-50-4 pg/g	< 0,968
PCB 105 - CAS N°:32598-14-4 pg/g	< 14,0
PCB 114 - CAS N°:74472-37-0 pg/g	< 1,90
PCB 118 - CAS N°:31508-00-6 pg/g	< 50,2
PCB 123 - CAS N°:65510-44-3 pg/g	< 1,43
PCB 126 - CAS N°:57465-28-8 pg/g	< 0,896
PCB 156 - CAS N°:38380-08-4 pg/g	< 7,89
PCB 157 - CAS N°:69782-90-7 pg/g	< 1,47
PCB 167 - CAS N°:52663-72-6 pg/g	< 3,94
PCB 169 - CAS N°:32774-16-6 pg/g	< 4,30
PCB 189 - CAS N°:39635-31-9 pg/g	< 1,43
WHO(2005)-PCB TEQ (lower-bound) pg/g	not detected
WHO(2005)-PCB TEQ (upper-bound) pg/g	0,222
PCB 28 - CAS N°:7012-37-5 ng/g	< 0,358
PCB 52 - CAS N°:35693-99-3 ng/g	< 0,358
PCB 101 - CAS N°:37680-73-2 ng/g	< 0,358
PCB 138 - CAS N°:35065-28-2 ng/g	< 0,358
PCB 153 - CAS N°:35065-27-1 ng/g	< 0,358
PCB 180 - CAS N°:35065-29-3 ng/g	< 0,358
Total 6 DIN-PCB excl. LOQ ng/g	not detected
Total 6 DIN-PCB incl. LOQ ng/g	2,15
Glyphosate, Glufosinate, AMPA in cotton material - LC-MS/MS - Internal Method	
Aminomethylphosphonic acid (AMPA) - CAS N°:1066-51-9 ng/1 g	< 10
Glufosinate - CAS N°:51276-47-2 ng/1 g	< 10
Glyphosate - CAS N°:1071-83-6 ng/1 g	< 10

Brand Manufacturer Denomination Batch n°	SAMPLE -- KOOSH/2 8AC 17:13 037 02/2020
Copper (Cu) - ICP-MS - DIN EN ISO 17294-2 mod.	
Copper (Cu) - CAS N°:7440-50-8 mg/kg	<1
Nickel (Ni) - ICP-MS - DIN EN ISO 17294-2 mod.	
Nickel (Ni) - CAS N°:7440-02-0 mg/kg	<1
Cobalt (Co) - ICP-MS - DIN EN ISO 17294-2 mod.	
Cobalt (Co) - CAS N°:7440-48-4 mg/kg	<1
Chromium (Cr) - ICP-MS - DIN EN ISO 17294-2 mod.	
Chromium (Cr) - CAS N°:7440-47-3 mg/kg	<1
Lead (Pb) - ICP-MS - DIN EN ISO 17294-2 mod.	
Lead (Pb) - CAS N°:7439-92-1 mg/kg	<1
Cadmium (Cd) - ICP-MS - DIN EN ISO 17294-2 mod.	
Cadmium (Cd) - CAS N°:7440-43-9 mg/kg	<0,1
Mercury (Hg) - ICP-MS - DIN EN ISO 17294-2 mod.	
Mercury (Hg) mg/kg	<0,1
Arsenic (As) - ICP-MS - DIN EN ISO 17294-2 mod.	
Arsenic (As) - CAS N°:7440-38-2 mg/kg	<1
Antimony (Sb) - ICP-MS - DIN EN ISO 17294-2 mod.	
Antimony (Sb) - CAS N°:7440-36-0 mg/kg	<1
Formaldehyde - Spectrophotometry - §64 LFGB B 82.02-1:1985-06	
Formaldehyde - CAS N°:50-00-0 mg/kg	<10
EOX/AOX	
EOX (extractable organic halogens) mg/kg	<2
AOX (adsorbable organic halogens) mg/kg	<0,5
Polycyclic Aromatic Hydrocarbons (PAHs) in products - GC-MS - AfPS GS 2019-01 - materials	
Naphthalene - CAS N°:91-20-3 mg/kg	<0,1
Phenanthrene - CAS N°:85-01-8 mg/kg	<0,1
Acenaphthylene - CAS N°:208-96-8 mg/kg	<0,1
Anthracene - CAS N°:120-12-7 mg/kg	<0,1
Acenaphthene - CAS N°:83-32-9 mg/kg	<0,1
Fluorene - CAS N°:86-73-7 mg/kg	<0,1
Fluoranthene - CAS N°:206-44-0 mg/kg	<0,1
Pyrene - CAS N°:129-00-0 mg/kg	<0,1
Benzo(a)anthracène - CAS N°:56-55-3 mg/kg	<0,1
Chrysene - CAS N°:218-01-9 mg/kg	<0,1
Benzo(b)fluoranthene - CAS N°:205-99-2 mg/kg	<0,1
Benzo-(k)-fluoranthene - CAS N°:207-08-9 mg/kg	<0,1
Benzo-(j)-fluoranthene - CAS N°:205-82-3 mg/kg	<0,1
Benzo(a)pyrene - CAS N°:50-32-8 mg/kg	<0,1
Benzo(e)pyrene - CAS N°:192-97-2 mg/kg	<0,1
Indeno-(1,2,3-cd)-pyrene - CAS N°:193-39-5 mg/kg	<0,1
Dibenzo(a,h)anthracene - CAS N°:53-70-3 mg/kg	<0,1
Benzo(ghi)Perylene - CAS N°:191-24-2 mg/kg	<0,1
Sum 18 PAH mg/kg	<0,2

Brand	SAMPLE
Manufacturer	--
Denomination	KOOSH/2
Batch n°	8AC 17:13 037 02/2020
Organochlorine Pesticides and Pyrethroids (GC-ECD) - GC-ECD - ASU L 00.00-34:2010-09	
Screened pesticides	Not detected
Other screened pesticides	Not detected
Allergens according to Regulation (EC) No 1223/2009 - GC-MS - EN 16274:2012-09, mod.	
Amyl Cinnamal - CAS N°:122-40-7 mg/kg	<1
Amylcinnamylalcohol - CAS N°:101-85-9 mg/kg	<1
Benzylalcohol - CAS N°:100-51-6 mg/kg	<1
Benzylsalicylate - CAS N°:118-58-1 mg/kg	<1
Cinnamyl alcohol - CAS N°:104-54-1 mg/kg	<1
Cinnamal - CAS N°:104-55-2 mg/kg	<1
Citral - CAS N°:5392-40-5 mg/kg	<1
Coumarin - CAS N°:91-64-5 mg/kg	<1
Eugenol - CAS N°:97-53-0 mg/kg	<1
Geraniol - CAS N°:106-24-1 mg/kg	<1
Hydroxycitronellal - CAS N°:107-75-5 mg/kg	<1
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde - CAS N°:31906-04-4 mg/kg	<1
Isoeugenol - CAS N°:97-54-1 mg/kg	<1
Anise Alcohol - CAS N°:105-13-5 mg/kg	<1
Benzylbenzoate - CAS N°:120-51-4 mg/kg	<1
Benzylcinnamate - CAS N°:103-41-3 mg/kg	<1
Citronellol - CAS N°:106-22-9 mg/kg	<1
Farnesol - CAS N°:4602-84-0 mg/kg	<1
Hexylcinnamal - CAS N°:101-86-0 mg/kg	<1
Butylphenyl Methylpropional - CAS N°:80-54-6 mg/kg	<1
Limonen mg/kg	<1
Linalool - CAS N°:78-70-6 mg/kg	<1
Methyl 2-Octynoate - CAS N°:111-12-6 mg/kg	<1
Alpha-Isomethyl Ionone - CAS N°:127-51-5 mg/kg	<1
Evernia Furfuracea Extract (qualitative)	Negative
Evernia Prunastri Extract (qualitative)	Negative

5. APPENDIX

Eurofins ATS
505 rue Louis Berton
CS 50550
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ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
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