










Tested Substances	Test Results	Why We Test
Polycyclic Aromatic Hydrocarbons (PAH's)	 <p>Undetectable and below the limit of quantification:</p> <p><0.1 milligrams / kilogram</p>	PAHs are distributed widely in the atmosphere via combustion processes. They are known for their poisonous effect and in some forms considered carcinogenic and related to respiratory health concerns and cancer.
Formaldehyde	 <p>Undetectable and below the limit of quantification:</p> <p><5 milligrams / kilogram</p>	Formaldehyde is widely used to make many types of plastics and adhesives, disinfectants, pressed wood products, nail polish and formaldehyde-releasing preservatives in personal care products. Formaldehyde produced in very small, non-harmful amounts by our bodies that are harmless to us. Industrially it is produced in large quantities and serves as source material many chemical reactions. People exposed to formaldehyde may experience short-term health effects such as skin irritation and respiratory symptoms. In high concentrations it's considered toxic and carcinogenic.
Fragrance allergans	 <p>Undetectable and below the limit of quantification:</p> <p><1 milligram / kilogram</p>	Fragrances are commonly used in disposable nappies to mask undesirable smells however a babies developing organs are highly sensitive to these harsh chemicals and allergens. Fragrances have the potential to cause inflammation, rash and respiratory issues. Manufacturers are not required to reveal the hidden chemicals used in fragrances as their specific aroma and formula are considered 'Trade Secrets'.
Phthalates	 <p>Undetectable and below the limit of quantification:</p> <p><10 milligrams / kilogram for DINP and DIDP</p> <p><1 milligram / kilogram for DEHP, DnOP, DMP, DEP, BBP, DBP, DiBP, DEHA, DnHP</p>	Phthalates are plasticizers or substances added to plastics to increase their flexibility, transparency and durability. They are often added to lotions and shampoos and in some nappies phthalates may be used to create a waterproof outer liner. Phthalates are not tightly chemically bonded to the plastic and continuously released through leaching into liquids which absorb into the skin.
Polychlorinated biphenyls (PCB)	 <p>Undetectable and below the limit of quantification:</p> <p><0.01 milligram / kilogram</p>	PCBs are amongst a broader group of harmful persistent organic pollutants (POPs) that are toxic, persist in the environment and animals, bioaccumulate through the food chain and pose a risk of causing adverse effects to human health and the environment. They have been used as coolants and lubricants in hydraulic fluids, additives in paint, carbonless copy paper, plasticisers and dye carriers. Australia banned the importation of PCBs in 1975. Symptoms experienced by people exposed to large amounts are skin conditions and damage to the liver.
Mercury	 <p>Undetectable and below the limit of quantification:</p> <p><0.02 µg/l</p>	Mercury is a silvery-white shiny heavy metal which has been used worldwide for many centuries for commercial and medicinal purposes. Mercury occurs not only anthropogenically but also naturally. It has toxic properties and severely affects the environment and humans, especially developing fetuses and infants. There is no known safe level of exposure. Mercury is a global pollutant, bio-accumulating, mainly through the aquatic food chain, resulting in a serious health hazard for children.

Tested Substances	Test Results	Why We Test
Organochlorine Pesticides and Pyrethroids	 <p>Undetectable and below the limit of quantification:</p> <p>Note detected</p>	Organochlorine insecticides are synthetic organic compounds which contain chlorine and are mainly used as contact and oral poisons which act on the nervous system. Because of their persistence in and impact on the environment, organochlorines are no longer used to treat pests in or around buildings. Most organochlorines were deregistered for use in Australia in 1996.
Lead, Cadmium & Arsenic	 <p>Undetectable and below the limit of quantification:</p> <p><1 / µg/l</p>	Lead and cadmium are considered persistent, bioaccumulative toxics (PBTs)— which means they last a very long time in our bodies and environment and they accumulate in living organisms, so that their concentrations in body tissues continue to increase (bioaccumulate). Lead is often found in PVC plastic and vintage plastic toys and toxic to brain development. Cadmium. Similar to lead is often found in PVC plastic and vintage plastic toys. It's linked to cancer and lung, kidney, and bone damage.
Chromium	 <p>Undetectable and below the limit of quantification:</p> <p><0.004 milligram / square decimetre</p>	Chromium is used in the manufacture of cars, glass, pottery and linoleum. Exposure to too much chromium may cause lung and respiratory tract cancer as well as kidney diseases. In addition, overexposure to chromium may also cause gastrointestinal symptoms, such as diarrhea and vomiting, often with blood.

 Below the limit of quantification.
  Measurable and well below limits.
  Measurable and 50% below limits.
  Measurable and above the limits.

TEST RESULTS EXPLAINED

We had the results deciphered by an independent Eurofins toxicologist and pleased to report that all substances tested do not exceed any health threshold and below the level of quantification.

- For chemical analysis, the result "0" does not exist. If the sign < comes before the test result, the substance is not quantifiable (undetected) in the sample tested.
- The limit of quantification is a method of analysis which determines the lowest concentration measurable by analytical instruments with satisfactory reliability.
- Example of formaldehyde <0.02 milligrams /square decimetre means that the quantification limit for this substance is <0.02 milligrams /square decimetre and means it has not been measured for formaldehyde
- The test code JJG0T Cold Water Extraction describes the sample preparation. 10 g was used for the tests and this 10 g sample had a surface of 2.7 dm² and we have put this 10 g sample in 250 ml water for the extraction.

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Report date 23.10.2023 Page 1/4

Analytical report AR-23-JR-020535-02

This report replaces report number: AR-23-JR-020535-01

Sample Code 799-2023-00019928

Reference	Joonya Baby Nappies
Client sample code	N/A
Purchase order code	N/A
Lot-no.	1027493 EXP 20280822
Number of received Samples	2408231555 1
Ordered by	Mr. Richard Sexton
Submitted by	Mr. Richard Sexton
Carrier	DHL
Reception date	07.09.2023
Start/end of analyses	07.09.2023 / 17.10.2023

TEST RESULTS

Preparation

JJG0T Cold water extraction for wet chemistry analyses (#)

Method: DIN EN 645:1994-01, Extraction	done	
Conducted	-	dm
Total surface	10.07	² g
sample size	250	ml
Volume		

JR1AECold water extract from paper and board (#)

Method: DIN EN 645:1994-01, Extraction [Extraction]		
sample size	10.07	g
Volume	250	ml
Total surface	-	dm ²
Conducted	done	

Specific migration

JRAG2Antimony (cold water extract) (#)

Method: Internal Method, PV 01184:2022-04, ICP-MS

Antimony (Sb)	<10	* µg/l
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Testing laboratory accredited by Deutsche Akkreditierungsstelle GmbH

DIN EN ISO/IEC 17025:2018

The accreditation is valid for the test methods listed in the certificate.

This report replaces report number: AR-23-JR-020535-01

JRAG3Arsenic (cold water extract) (#)Method:Internal Method, PV 01184:2022-04, ICP-MS
Arsenic (As)<1*µg/l**JRAG4Lead (cold water extract) (#)**Method:Internal Method, PV 01184:2022-04, ICP-MS
Lead (Pb)<1*µg/l**JRAG5Cadmium (cold water extract) (#)**Method:Internal Method, PV 01184:2022-04, ICP-MS
Cadmium (Cd)<1*µg/l**JRAG7Mercury (cold water extract) (#)**Method:Internal Method, PV 01184:2022-04, ICP-MS
mercury (cold water extraction)<0.2*µg/l**Physical-chemical Analysis****JROAIFormaldehyde (cold water extract) in paper, board, hygiene articles) (#)**Method:DIN EN 1541:2001-07 mod., Spectrophotometry
Formaldehyde <5

* mg/kg

JROC6Phthalates in Non-Food articles (#)

Method:Internal Method, PV 00694:2022-06, GC-MS

Phthalic acid, bis-2-ethylhexyl ester (DEHP)<1

* mg/kg

Phthalic acid, bis-butyl ester (DBP)<1

* mg/kg

Phthalic acid, benzylbutyl ester (BBP)<1

* mg/kg

Phthalic acid, bis-iso-nonyl ester (DINP)<10

* mg/kg

Phthalic acid, bis-iso-decyl ester (DIDP)<10

* mg/kg

Phthalic acid, bis-n-octyl ester (DnOP)<1

* mg/kg

Phthalic acid, bis-iso-butyl ester (DiBP)<1

* mg/kg

J6545Polychlorinated biphenyls (PCB) (#)

Method:DIN EN ISO 15318:1999-12 mod.(no SPE;one analysis), GC-MS

PCB 101<0.01

* mg/kg

PCB 138<0.01

* mg/kg

PCB 153<0.01

* mg/kg

PCB 180<0.01

* mg/kg

PCB 28<0.01

* mg/kg

PCB 52<0.01

* mg/kg

PCB IUPAC - Nr. 18<0.01

* mg/kg

JROECPolycyclic Aromatic Hydrocarbons (PAHs) in products (#)

Method:Internal Method, PV 1364 2021-08, GC-MS

Naphthalene <0.1

* mg/kg

Phenanthrene <0.1

* mg/kg

Anthracene <0.1

* mg/kg

Fluoranthene <0.1

* mg/kg

Pyrene <0.1

* mg/kg

Benz(a)anthracene <0.1

* mg/kg

Chrysene <0.1

* mg/kg

Benzo(b)fluoranthene <0.1

* mg/kg

Benzo-(k)-fluoranthene <0.1

* mg/kg

Benzo-(j)-fluoranthene <0.1

* mg/kg

Benzo(a)pyrene <0.1

* mg/kg

Benzo(e)pyrene <0.1

* mg/kg

Indeno(1,2,3-cd)pyrene <0.1

* mg/kg

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Dibenz(a,h)anthracene <0.1 * mg/kg

Benzo(g,h,i)perylene <0.1 * mg/kg

Sum 15 PAH<0.2mg/kg

JJ606Fragrance allergens according to EU Regulation No. 1223/2009 (#)

Method:DIN EN 16274:2021-11 (mod.), GC-MS

Amyl cinnamal<1*mg/kg

Amylcinnamylalcohol <1 * mg/kg

Benzylsalicylate <1 * mg/kg

Cinnamyl alcohol<1*mg/kg

Citral <1 * mg/kg

Coumarin <1 * mg/kg

Eugenol <1 * mg/kg

Geraniol <1 * mg/kg

Hydroxycitronellal <1 * mg/kg

Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde<1*mg/kg

Isoeugenol <1 * mg/kg

Anise Alcohol<1*mg/kg

Benzylbenzoate <1 * mg/kg

Benzylcinnamate <1 * mg/kg

Citronellol <1 * mg/kg

Hexylcinnamal <1 * mg/kg

Butylphenyl Methylpropional<1*mg/kg

Linalool <1 * mg/kg

Methyl 2-Octynoate<1*mg/kg

Alpha-Isomethyl Ionone<1*mg/kg

Limonene <1 * mg/kg

Cinnamon aldehyde<1*mg/kg

Farnesol <1 * mg/kg

Benzyl alcohol<1*mg/kg

Evernia Furfuracea extract (qualitative)negativ

Evernia Prunastri extract (qualitative)negativ

ZPHY1Organochlorine Pesticides and Pyrethroids (GC-ECD)

Method:ASU L 00.00-34:2010-09, DFG-S19, GC-ECD

Subcontracted to a Eurofins laboratory

Screened pesticides

Not Detected

ZPHY2Organophosphorus Pesticides (GC-FPD)

Method:ASU L 00.00-34:2010-09, DFG-S19, GC-FPD

Subcontracted to a Eurofins laboratory

Screened pesticidesNot Detected

ZPHY3Pesticide Screening LC-GHT

Method:DIN EN 15662:2018-07 mod., P-14.141, LC-MS/MS

Subcontracted to a Eurofins laboratory

Screened pesticides

Not Detected

* = below indicated quantification level

#) = Eurofins Consumer Product Testing (Hamburg) is accredited for this test.

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Signature 
Analytical Service Manager (Thorsten Wolter)

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