



Test Report No. 68.420.25.3900.01
Rev. 00
Dated 2026-01-06

Applicant: Eldohm B.V.

Address: Ruimtevaart 24, 3d floor, 3824 MX Amersfoort, The Netherlands

Sample Description: Battery of Tiesto Hybrid ANC Headphone

Model No.: /

Article No.: 3222290

EAN: 489702522409

Sample Received Date: 2025-12-04, 2025-12-29

Test Period: From 2025-12-04 to 2026-01-05

Location of Testing: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch

Purpose of examination: As specified by client, to test restrictions substances for battery as regulated in Article 6 (1) of Regulation (EU) 2023/1542 on submitted samples

Test Results: Refer to following page(s)

Remark: The result relates only to the items tested.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Reviewed by:



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Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, pass or fail verdicts are given based on the measured values without consideration of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as pass or fail.

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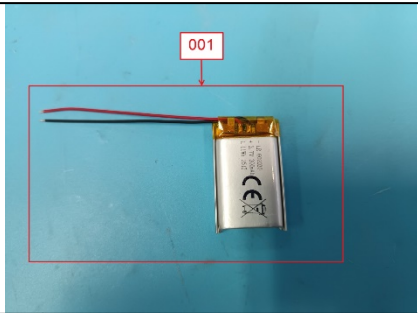
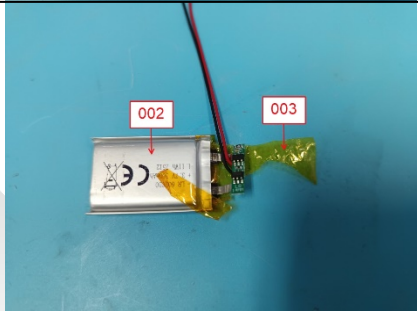
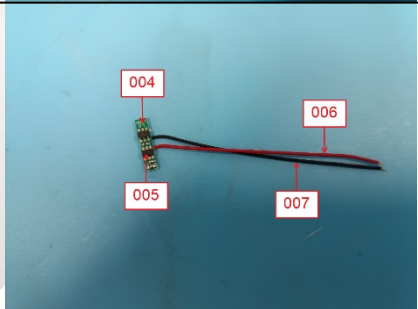


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SUMMARY OF TEST RESULTS

No.	Test Requested	Conclusion	Remarks
Regulation (EU) 2023/1542 Annex I			
1.	Cadmium, Mercury and Lead content	PASS	
Regulation (EC) 1907/2006 (REACH) Annex XVII			
2.	Total Cadmium (Cd) Content	PASS	
3.	Total Lead (Pb) Content	PASS	
4.	Organostannic Compounds (DBT, DOT, TBT, TPhT, TcyT, TOT, TPT and TMT) Content	PASS	
5.	Octabromodiphenyl ether (OctaBDE) Content	PASS	
6.	Phthalates (DEHP, DBP, BBP and DIBP) Content	PASS	
7.	C9-C14 PFCAs Content	PASS	

1. TESTED SUBJECT DESCRIPTION

Test No.	Sample No.	Tested Material Description	Photo
T1	001	Silvery packed battery with wires	
T2	002	Black printed silvery plastic shell	
T3	003	Yellow plastic with adhesive tape	
T4	004	Green PCB	
T5	005	Black body	
T6	006	Red soft plastic wire	
T7	007	Black soft plastic wire	

2. TEST RESULT

2.1. CADMIUM, MERCURY AND LEAD CONTENT TEST

Test Method: With reference to EN 62321-4:2014 /A1:2017 and EN 62321-5:2014, analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

For portable battery:

Test Item	CAS No.	Result [%]	Maximum Permissible Limit [%]
		Sample 001	
Cadmium (Cd)	7440-43-9	< 0.0002	0.002
Mercury (Hg)	7439-97-6	< 0.0002	0.0005
Lead (Pb)	7439-92-1	< 0.0004	0.01

Note:

- “%” denotes percentage by weight
- The specification was quoted from Regulation (EU) 2023/1542.
- If portable batteries containing more than 0,004 % lead, shall be marked with the chemical symbol for the metal concerned: Pb.
- The relevant chemical symbol indicating the heavy metal content shall be printed beneath the separate collection symbol and shall cover an area of at least one-quarter the size of that symbol.

2.2. TOTAL CADMIUM CONTENT TEST

Test method: With reference to EPA 3052:1996 or EPA3050B: 1996, followed by analysis using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES). [Reporting Limit: 10.0 mg/kg]

Test Item	CAS No.	Result [mg/kg]		Maximum Permissible Limit [mg/kg]
		Sample 002+003	Sample 004	
Total Cadmium (Cd)	7440-43-9	< 10.0	< 10.0	100

Test Item	CAS No.	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
		Sample 006+007	
Total Cadmium (Cd)	7440-43-9	< 10.0	100

Note:

- “mg/kg” denotes milligram per kilogram
- The specification was quoted from regulation (EC) 1907/2006 (REACH) Annex XVII Entry 23.

2.3. TOTAL LEAD CONTENT TEST

Test method: With reference to EPA 3052:1996 or EPA3050B: 1996, analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES). [Reporting Limit: 10.0 mg/kg]

Test Item	CAS No.	Result [mg/kg]		Maximum Permissible Limit [mg/kg]
		Sample 002+003	Sample 006+007	
Total Lead (Pb)	7439-92-1	< 10.0	< 10.0	500

Note:

- “mg/kg” denotes milligram per kilogram
- The specification was quoted from regulation (EC) 1907/2006 (REACH) Annex XVII Entry 63.

2.4. ORGANOSTANNIC COMPOUNDS CONTENT TEST

Test method: With reference to ISO 22744-1: 2020, extracted by acidified methanol, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).
 [Reporting limit: 1 mg/kg]

Test Item	CAS No.	Result [mg/kg]	
		Sample 002+003	Sample 006+007
Dibutyltin (DBT)	14488-53-0	<1	<1
Diocetyltn (DOT)	250252-87-0	<1	<1
Tributyltin (TBT)	36643-28-4	<1	<1
Triphenyltin (TPhT)	668-34-8	<1	<1
Tricyclohexyltin (TcyT)	3091-32-5	<1	<1
Triocetyltn (TOT)	2587-76-0	<1	<1
Tripropyltin (TPT)	688-73-3	<1	<1
Trimethyltin (TMT)	1066-45-1	<1	<1

Note:

- “mg/kg” denotes milligram per kilogram
- Limit according to regulation (EC) 1907/2006 (REACH) Annex XVII Entry 20: Concentration of Tri-substituted organostannic (Tributyltin (TBT), Triphenyltin (TPhT), Tricyclohexyltin (TcyT), Triocetyltn (TOT), Tripropyltin (TPT), and Trimethyltin (TMT)), Dibutyltin (DBT), Diocetyltn (DOT) and compounds shall not be greater than the equivalent of 0.1 % by weight of tin.

2.5. OCTABROMODIPHENYL ETHER (OctaBDE) CONTENT TEST

Test method: For the Screening test, analyzed by Energy Dispersive X-ray Fluorescence Spectrometers (XRF);

For the confirmation test, with reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 20 mg/kg]

Sample No.	Screening Results as Bromine (XRF)	OctaBDE Confirmation Results [mg/kg]	Overall Conclusion
002	BL	---	Pass
003	BL	---	Pass
004	Inconclusive	<20	Pass
005	BL	---	Pass
006	BL	---	Pass
007	BL	---	Pass
Permissible Limit		OctaBDE (CAS No.: 32536-52-0) < 1000 mg/kg	

Note:

- “mg/kg” denotes miligram per kilogram
- “BL” denotes below limit
- “NA” denotes not applicable
- Recommended XRF screening limits in mg/kg for Bromine (Br) test:

Element	BL	Inconclusive
Br	$X < (250 - 3\sigma)$	$X \geq (250 - 3\sigma)$
- The specification was quoted from regulation (EC) 1907/2006 (REACH) Annex XVII Entry 45.

2.6. PHTHALATES CONTENT TEST

Test method: With reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Item	CAS No.	Result [%]	Permissible Limit [%]
		Sample 006+007	
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<0.005	--
Di-butyl Phthalate (DBP)	84-74-2	<0.005	--
Butyl-benzyl Phthalate (BBP)	85-68-7	<0.005	--
Di-iso-butyl Phthalate (DIBP)	84-69-5	<0.005	--
Sum of above substances	--	<0.005	< 0.1

Note:

- “%” denotes percent by weight
- The specification was quoted from regulation (EC) 1907/2006 (REACH) Annex XVII Entry 51.



2.7. C9-C14 PFCAS CONTENT TEST

Test method: With reference to EN 17681-1: 2025, extracted by organic solvent and analyzed by Liquid Chromatography with Tandem Mass Spectrometry Detection (LC-MS/MS).

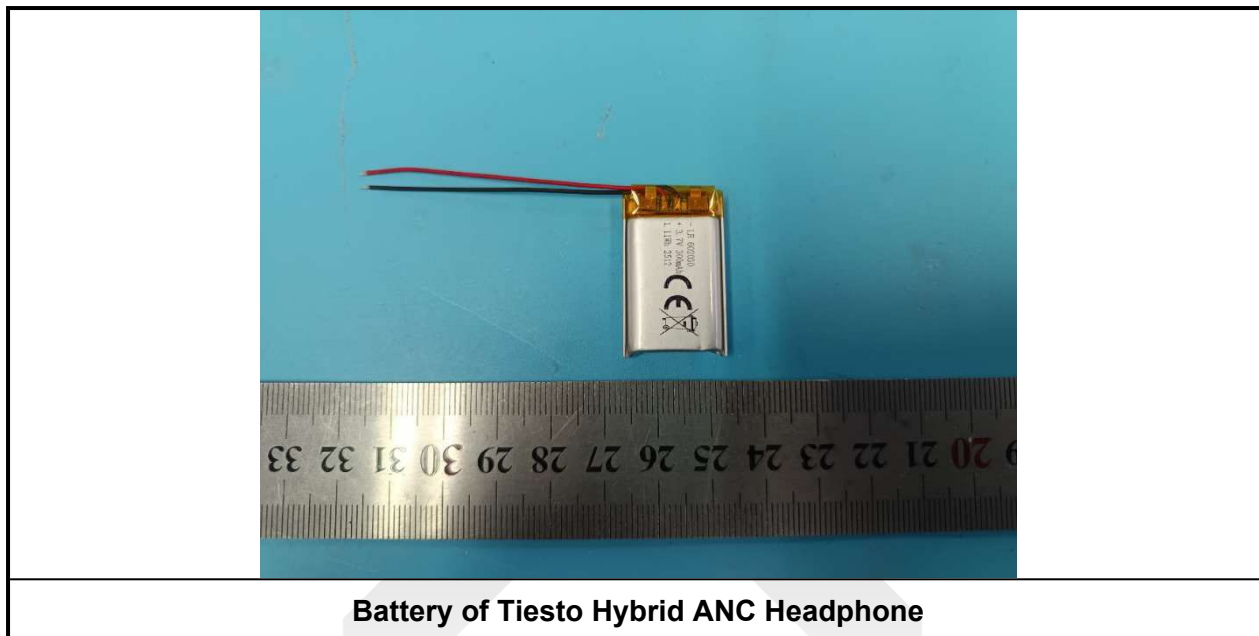
Test Item	CAS No.	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
		Sample 004	
C9-C14 PFCAs and their salts			
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	< 0.01	--
Perfluoro-n-decanoic acid (PFDA)	335-76-2	< 0.01	--
Perfluoroundecanoic acid (PFUnA)	2058-94-8	< 0.01	--
Perfluorododecanoic acid (PFDoA)	307-55-1	< 0.01	--
Perfluorotridecanoic acid (PFTrA)	72629-94-8	< 0.01	--
Perfluorotetradecanoic acid (PFTeA/PFTeDA)	376-06-7	< 0.01	--
Perfluoro-n-nonanoic acid salts - Ammonium perfluorononanoate (NH4-PFN)*	4149-60-4	< 0.01	--
Perfluoro-n-nonanoic acid salts - Sodium perfluorononanoate (Na-PFN)*	21049-39-8	< 0.01	--
Perfluoro-n-decanoic acid salts - Ammonium perfluorodecanoate (NH4-PFD)*	3108-42-7	< 0.01	--
Perfluoro-n-decanoic acid salts - Sodium perfluorodecanoate (Na-PFD)*	3830-45-3	< 0.01	--
Perfluoro(3,7-dimethyloctanoic acid) (PF-3,7-DMOA)	172155-07-6	< 0.01	--
Ammonium perfluoro-n-dodecanoate 10 (NH4-PFDoD)*	3793-74-6	< 0.01	--
Sum of above substances	--	< 0.01	0.025
C9-C14 PFCAs related substances			
2-Perfluorodecylethanol (10:2 FTOH)	865-86-1	< 0.01	--
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	< 0.01	--
2H,2H,3H,3H-Heptadecafluoroundecanoic Acid (4HPFUnA)	34598-33-9	< 0.01	--
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	< 0.01	--
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	< 0.01	--
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	< 0.01	--
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	< 0.20	--
2H,2H Perfluorodecane Acid (H2PFDA /8:2 FTCA)	27854-31-5	< 0.01	--
Tetrabutylphosphonium 2H,2H-perfluorodecanoate11 (H2PFDA-P(Butyl)4)	882489-14-7	< 0.01	--
Sum of above substances	--	< 0.20	0.26

Note:

- “mg/kg” denotes milligram per kilogram
- “*” denotes the data was converted based on results of related compounds
- The specification was quoted from regulation (EC) 1907/2006 (REACH) Annex XVII Entry 68.

APPENDIX

Photos of submitted products



-----End of Report-----