

AB-2029-T

25100011

10-25

TEST REPORT

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CUSTOMER INFORMATION

Applicant: ALB Enerji Servis Aydınlatma ve Mühendislik Çözümleri Ltd. Şti.
Address: Abdurrahmangazi, Sevenler CD. BİNA NO 55 D:5, 34887 Sancaktepe/İstanbul
Related Person: -
Contact: -

SAMPLE INFORMATION

Sample Acceptance Date : 06.10.2025
Sample Description: Emergency Lighting Kit
Amount: 1 Piece
Brand: ALBEX
Model No: YFB-200

Explanation: Based on the performed tests on selected part of submitted samples, RoHS Tests comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

GENERAL EVALUATION PASS**Seal****Sample Acceptance and
Reporter**
Arzum ANLI**Laboratory Manager**

Tuğba YILMAZ

**Date**

10.10.2025

TEST REPORT

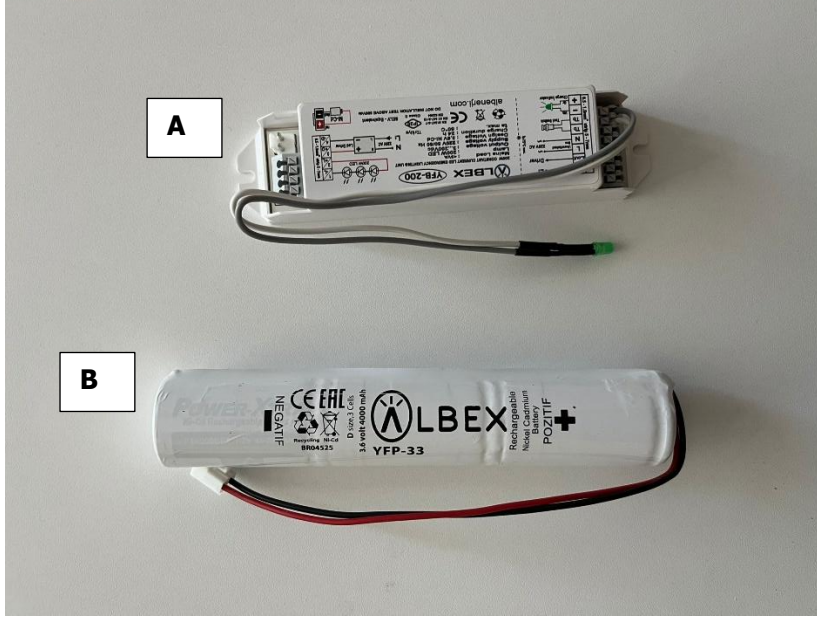
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SAMPLE PHOTO**SUMMARY TEST RESULT**

	ANALYSIS	METHOD	EVALUATION
	Cadmium (Cd) Content	IEC 62321-5:2013	PASS
*	Lead (Pb) Content	CPSC-CH-E1001-08.3	PASS
	Mercury (Hg) Content	IEC 62321-4:2017	PASS
	Hexavalent Chromium (CrVI) (for non metal)	IEC 62321-7-2:2017	PASS
	Hexavalent Chromium (CrVI) (for metal)	IEC 62321-7-1:2015	PASS
	Flame Retardants (PBBs/PBDEs)	IEC 62321-6:2015	PASS
*	Phthalates	CPSC-CH-C1001-09.4	PASS

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SAMPLE DETAILS

SAMPLE	NO	DESCRIPTION
A	1	Gray cable
A	2	White cable
A	3	Black plastic cable end
A	4	Green plastic charge indicator
A	5	Gray plastic cable entry socket
A	6	Black printed adhesive label
A	7	White plastic switch
A	8	White plastic outer case
A	9	Gray metal connector ends
A	10	Green internal circuit board
B	11	Red cable
B	12	Black cable
B	13	White cable end
B	14	Printed white plastic outer shell
B	15	Battery

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TEST RESULTS

The following analyzes have been made in line with the customer request.

Decision Rule: The customer has stated that he wants to make a declaration of conformity "without measurement uncertainty".

CADMIUM (Cd) CONTENT			
Test Method:	IEC 62321-5:2013		
Test Start Date:	06.10.2025	Test Finish Date:	10.10.2025
Test Part	Result	Limit	Evaluation
1+2+3	< 5	100	PASS
4	< 5	100	PASS
5+7+8	< 5	100	PASS
6+14	< 5	100	PASS
9	< 5	100	PASS
10	< 5	100	PASS
11+12+13	< 5	100	PASS
15	< 5	100	PASS

Controlled Parameters: Cadmium

Report Limiting for Plastic : 5,00 mg/kg
Limit value for cadmium 0.01 % (100 ppm)
Measurement Uncertainty : ± % 8,4

Analysis by microwave or acid digestion and determined by ICP-MS

*LEAD (Pb) CONTENT			
Test Method:	CPSC-CH-E1001-08.3		
Test Start Date:	06.10.2025	Test Finish Date:	10.10.2025
Test Parts	Result (mg/kg)	Limit (mg/kg)	Evaluation
1+2+3	< 5	1000	PASS
4	< 5	1000	PASS
5+7+8	< 5	1000	PASS
6+14	< 5	1000	PASS
9	< 5	1000	PASS
10	< 5	1000	PASS
11+12+13	< 5	1000	PASS
15	< 5	1000	PASS

Controlled Parameters: Lead

Report Limiting for Plastic : 5,00 mg/kg
Limit value for lead 0.1 % (1000 ppm)
Measurement Uncertainty : ± % 8,4

*According to DIRECTIVE 2011/65/EU, the lead limit for copper alloy materials is 4%.

Analysis by microwave or acid digestion and determined by ICP-MS

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MERCURY (Hg) CONTENT

Test Method:	IEC 62321-4:2017		
Test Start Date:	06.10.2025	Test Finish Date:	10.10.2025
Test Parts	Result (mg/kg)	Limit (mg/kg)	Evaluation
1+2+3	< 1	1000	PASS
4	< 1	1000	PASS
5+7+8	< 1	1000	PASS
6+14	< 1	1000	PASS
9	< 1	1000	PASS
10	< 1	1000	PASS
11+12+13	< 1	1000	PASS
15	< 1	1000	PASS

Controlled Parameters: Mercury

Report Limiting for Plastic : 1,00 mg/kg

Limit value for Hg 0.1 % (1000 ppm)

Measurement Uncertainty : ± % 11,9

Analysis by microwave or acid digestion and determined by ICP-MS

HEXAVALENT CHROMIUM (CrVI) (for non metal)

Test Method:	IEC 62321-7-2:2017		
Test Start Date:	06.10.2025	Test Finish Date:	10.10.2025
Test Parts	Result (mg/kg)	Limit (mg/kg)	Evaluation
1+2+3	< 25	1000	PASS
4+5+7	< 25	1000	PASS
6+14	< 25	1000	PASS
8+11+12	< 25	1000	PASS
13	< 25	1000	PASS

Controlled Parameters: Cr+6 content

Report Limiting for Plastic : 25,00 mg/kg

Limit value for Cr+6 0.1 % (1000 ppm)

Measurement Uncertainty : ± % 10,9

Analysis by Ultraviolet-Visible Spectroscopy (UV-VIS spectrophotometer) device.

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HEXAVALENT CHROMIUM (CrVI) (for metal)

Test Method:	IEC 62321-7-1:2015		
Test Start Date:	06.10.2025	Test Finish Date:	10.10.2025
Test Parts	Result (mg/kg)	Limit (mg/kg)	Evaluation
9	< 0,10	Stated Below	PASS
10	< 0,10	Stated Below	PASS
15	< 0,10	Stated Below	PASS

Controlled Parameters:
Cr+6 contentReport Limiting for Metal : 0.1 mg/kg with 50 cm²
Limit value for Cr+6

< 0.10 µg/cm ²	Negative
≥ 0.10 µg/cm ² and ≤ 0.13 µg/cm ²	Inconclusive
> 0.13 µg/cm ²	Positive

Analysis with Ultraviolet-visible spectroscopy (UV-VIS spectrophotometer) device.

FLAME RETARDANTS (PBBS/PBDES)

Test Method:	IEC 62321-6:2015		
Test Start Date:	06.10.2025	Test Finish Date:	10.10.2025
Test Parts	Result (mg/kg)	Limit (mg/kg)	Evaluation
1+2+3	< 10	1000	PASS
4+5+7	< 10	1000	PASS
6+14	< 10	1000	PASS
8+11+12	< 10	1000	PASS
13	< 10	1000	PASS

Controlled Parameters:

Polybrominated Biphenyls (PBB)
Monobromobiphenyl (MonoBB)
Dibromobiphenyl (DiBB)
Tribromobiphenyl (TriBB)
Tetrabromobiphenyl (TetraBB)
Pentabromobiphenyl (PentaBB)
Hexabromobiphenyl (HexaBB)
Heptabromobiphenyl (HeptaBB)
Octabromobiphenyl (OctaBB)
Nonabromobiphenyl (NonaBB)
Decabromobiphenyl (DecaBB)

Polybrominated Diphenyl Ethers (PBDE)
Monobromodiphenyl Ether (MonoBDE)
Dibromodiphenyl Ether (DiBDE)
Tribromodiphenyl Ether (TriBDE)
Tetrabromodiphenyl Ether (TetraBDE)
Pentabromodiphenyl Ether (PentaBDE)
Hexabromodiphenyl Ether (HexaBDE)
Heptabromodiphenyl Ether (HeptaBDE)
Octabromodiphenyl Ether (OctaBDE)
Nonabromodiphenyl Ether (NonaBDE)
Decabromodiphenyl Ether (DecaBDE)

Report Limiting : 10 mg/kg
Limit value for total (PBBS/PBDES) 0.1 % (1000 ppm)
Measurement Uncertainty : ± % 11,2

Analysis with Gas Chromatography Mass Spectroscopy (GC-MS) device.

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***PHTHALATES**

Test Method:	CPSC-CH-C1001-09.4		
Test Start Date:	06.10.2025	Test Finish Date:	10.10.2025
Test Parts	Result (mg/kg)	Limit (mg/kg)	Evaluation
1+2+3	< 50	1000	PASS
4+5+7	< 50	1000	PASS
6+14	< 50	1000	PASS
8+11+12	< 50	1000	PASS
13	< 50	1000	PASS

Controlled Parameters:

Dibutylphthalate (DBP) (CAS No : 84-74-2)
Butylbenzyl phthalate (BBP) (CAS No : 85-68-7)
Di-(2-ethylhexyl)-phthalate (DEHP) (CAS No : 117-81-7)
Di-iso-butyl phthalate (DIBP) (CAS No : 84-69-5)

Report Limiting : 50 mg/kg
Limit value for Phthalates 0.1 % (1000 ppm)
Measurement Uncertainty : $\pm$ % 15,1

Analysis with Gas Chromatography Mass Spectroscopy (GC-MS) device.

*** End Report ***