

# TEST REPORT

**Applicant** : Mid Ocean Brands B.V.

**Address** : Unit 711-716, 7/F., Tower A, 83 King Lam Street,  
Cheung Sha Wan, Kowloon, Hong Kong

**Sample description** : Rechargeable massage gun

**Item no.** : MO2965

**Manufacturer** : 107961

**Sample received date** : 04-Nov-2025

**Turn around time** : 04-Nov-2025 To 12-Nov-2025

**Revised date** : 14-Nov-2025

The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

| TEST REQUESTED                          | TEST METHOD/REGULATION     | RESULT |
|---|----------------------------|--------|
| Polycyclic Aromatic Hydrocarbons (PAHs) | REACH Annex XVII, Entry 50 | Pass   |
| Banned AZO Dyes                         | REACH Annex XVII, Entry 43 | Pass   |
| Colour Fastness to Rubbing              | DIN EN ISO105-X12:2016     | Pass   |

Note : This report cancels and supersedes report number EFW525110753-CG-01 issued on Nov 12<sup>th</sup>, 2025.  
Modification description: as per client's request, revise address of applicant, sample photo and add client's requirement of Colour Fastness to Rubbing in the revised report.

*Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. Unless otherwise stated from the customer, regulation or the standard specification, Eurofins will apply it in accordance with ILAC G8:09/2019-(binary statement for simple acceptance rule). If you happen to have any comments, please do it by sending email to [info.sh@cpt.eurofinscn.com](mailto:info.sh@cpt.eurofinscn.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [info.sh@cpt.eurofinscn.com](mailto:info.sh@cpt.eurofinscn.com) and referring to this report number.*



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\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd.



Linda Jin  
Chemical Division Assistant Manager

**SAMPLE PHOTO(S)**



**EFW525110753-CG-01+REV 1**

\*\*\*TO BE CONTINUED\*\*\*

## **COMPONENT LIST**

| Component No. | Component                                   | Sample No. |
|---------------|---|------------|
| 1             | White plastic (USB interface)               | A          |
| 2             | Black plastic (charging interface)          | A          |
| 3             | Black plastic (buckle)                      | A          |
| 4             | Black plastic (body)                        | A          |
| 5             | Black soft plastic (gasket)                 | A          |
| 6             | Black soft plastic (head)                   | A          |
| 7             | Black soft plastic wire jacket              | A          |
| 8             | Black soft plastic (charging plug/USB plug) | A          |
| 9             | Black fabric (bag)                          | A          |
| 10            | Black mesh fabric (bag)                     | A          |
| 11            | Black fabric (rope)                         | A          |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its latest amendment.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK.

| Test Item(s)           | CAS No.  | Unit  | Limit | MDL | Result |    |       |    |
|------------------------|----------|-------|-------|-----|--------|----|-------|----|
|                        |          |       |       |     | 1+2+3  | 4  | 5+6+7 | 8  |
| Benzo(a)anthracene     | 56-55-3  | mg/kg | 1     | 0.1 | ND     | ND | ND    | ND |
| Chrysene               | 218-01-9 | mg/kg | 1     | 0.1 | ND     | ND | ND    | ND |
| Benzo(b)fluoranthene   | 205-99-2 | mg/kg | 1     | 0.1 | ND     | ND | ND    | ND |
| Benzo(j)fluoranthene   | 205-82-3 | mg/kg | 1     | 0.1 | ND     | ND | ND    | ND |
| Benzo(k)fluoranthene   | 207-08-9 | mg/kg | 1     | 0.1 | ND     | ND | ND    | ND |
| Benzo(a)pyrene         | 50-32-8  | mg/kg | 1     | 0.1 | ND     | ND | ND    | ND |
| Dibenzo(a,h)anthracene | 53-70-3  | mg/kg | 1     | 0.1 | ND     | ND | ND    | ND |
| Benzo(e)pyrene         | 192-97-2 | mg/kg | 1     | 0.1 | ND     | ND | ND    | ND |

#### Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN ISO 14362-1:2017, sampling procedure and sample preparation according to Annex E4.2 and Annex E4.3.

| Test Item(s)                         | CAS No.  | Unit  | Limit | MDL | Result  |
|--------------------------------------|----------|-------|-------|-----|---------|
|                                      |          |       |       |     | 9+10+11 |
| 4-methyl-m-phenylenediamine          | 95-80-7  | mg/kg | 30    | 5   | ND      |
| 2-Naphthylamine                      | 91-59-8  | mg/kg | 30    | 5   | ND      |
| 4,4'-methylenedi-o-toluidine         | 838-88-0 | mg/kg | 30    | 5   | ND      |
| Bis-(4-aminophenyl)methane           | 101-77-9 | mg/kg | 30    | 5   | ND      |
| 4,4'-Oxydianiline                    | 101-80-4 | mg/kg | 30    | 5   | ND      |
| 4,4'-Thiodianiline                   | 139-65-1 | mg/kg | 30    | 5   | ND      |
| Benzidine                            | 92-87-5  | mg/kg | 30    | 5   | ND      |
| o-Toluidine                          | 95-53-4  | mg/kg | 30    | 5   | ND      |
| 5-Nitro-o-toluidine (Note 1)         | 99-55-8  | mg/kg | 30    | 5   | ND      |
| 4-methoxy-m-phenylenediamine         | 615-05-4 | mg/kg | 30    | 5   | ND      |
| 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | mg/kg | 30    | 5   | ND      |
| o-Aminoazotoluene (Note 1)           | 97-56-3  | mg/kg | 30    | 5   | ND      |
| 2,4,5-Trimethylaniline               | 137-17-7 | mg/kg | 30    | 5   | ND      |
| 4-Aminobiphenyl                      | 92-67-1  | mg/kg | 30    | 5   | ND      |
| o-Anisidine                          | 90-04-0  | mg/kg | 30    | 5   | ND      |
| 3,3'-Dichlorobenzidine               | 91-94-1  | mg/kg | 30    | 5   | ND      |
| 4-Chloroaniline                      | 106-47-8 | mg/kg | 30    | 5   | ND      |
| 3,3'-Dimethoxybenzidine              | 119-90-4 | mg/kg | 30    | 5   | ND      |
| n.d.3,3'-Dimethybenzidine            | 119-93-7 | mg/kg | 30    | 5   | ND      |
| 4-Amino-azobenzene (Note 2)          | 60-09-3  | mg/kg | 30    | 5   | ND      |
| 2-Methoxy-5-methylaniline            | 120-71-8 | mg/kg | 30    | 5   | ND      |
| 4-Chloro-2-methylaniline             | 95-69-2  | mg/kg | 30    | 5   | ND      |

### Remarks:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.

Note 2: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine.

MDL = method detection limit

ND = Not detected, less than MDL,

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Colour Fastness to Rubbing

DIN EN ISO105-X12:2016

|                             | (9) | (10) | (11) | Requirement |
|-----------------------------|-----|------|------|-------------|
| Lengthwise Dry Colour Stain | 4-5 | 4-5  | 4-5  | Grade 2-3   |
| Lengthwise Wet Colour Stain | 4-5 | 4-5  | 4-5  | Grade 2-3   |
| Widthwise Dry Colour Stain  | 4-5 | 4-5  | /    | Grade 2-3   |
| Widthwise Wet Colour Stain  | 4-5 | 4-5  | /    | Grade 2-3   |

### Remarks:

Grey Scale for Assessing Colour Change/Staining

Grade 5 Negligible or no change/staining

Grade 4 Slightly changed/stained

Grade 3 Noticeably changed/stained

Grade 2 Considerably changed/stained

Grade 1 Much changed/stained

\*\*\*END OF THE REPORT\*\*\*