



# **TEST REPORT**

Reference No	10	WTF17F1091891C

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

Address ...... : Unit 201 2/F., Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan,

Kowloon, Hong Kong.

Manufacturer ..... : 113089

Sample Name ......: Tritan sport bottle

Model No. ..... : MO9227

Test Requested...... : According to client's requirement, with reference to Regulation (EU) No

10/2011 with amendments and Regulation (EC) No 1935/2004, test

the specific items.

Test Conclusion ...... : Pass (Please refer to next pages for details)

Date of Receipt sample ... : 2017-10-09

**Date of Test** ...... 2017-10-09 to 2017-10-13

**Date of Issue** ..... : 2017-10-13

Test Result .....: Please refer to next page (s)

## Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

# Prepared By:

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Approved by:

Dino Zhang / Lab Manager



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# **Test Results:**

# 1. Overall Migration Test

Food Simulant	Took Condition	Result (	mg/dm²)	MDL (mg/dm²)	Limit (many/alos <sup>2</sup> )	
Food Simulant	Test Condition	No.1 No.2		MDL (mg/am )	Limit (mg/dm²)	
3% Acetic Acid	70°C for 2 hours	ND	3 711	3	10	
50% Ethanol	70°C for 2 hours	ND	ND	white 3 miles	10	

Food Simulant	Test Condition	Result (mg/dm²)		MDL (mg/dm²)	Limit (mg/dm²)	
Food Simulant	rest Condition	No.3 No.4		MDE (mg/am )		
3% Acetic Acid	70°C for 2 hours	3	ND	3	10	
50% Ethanol	70°C for 2 hours	5	ND	ALL 3 ML	10	

#### Note:

- 1. Test method: With reference to EN 1186-1: 2002 and EN 1186-3: 2002.
- 2. "mg/dm<sup>2</sup>" = milligram per square decimetre
- 3. "°C" = Celsius degree
- 4. MDL= Method Detection Limit
- 5. ND = Not Detected, less than MDL
- 6. The specification was quoted from (EU) No 10/2011 and its amendment (EU) 2016/1416 and (EU) 2017/752.

Food Cimulant	Took Condition	Result (mg/kg)	MDI (malled)	limit (mar/lea)	
Food Simulant	Test Condition	No.5	MDL(mg/kg) Limit (mg/kg		
3% Acetic Acid	70°C for 2 hours	ND	20	60	
50% Ethanol	70°C for 2 hours	ND WELL	20	60	

## Note:

- 1. Test method: With reference to EN 1186-1: 2002 and EN 1186-3: 2002.
- 2. "mg/kg" = milligram per kilogram of foodstuff in contact with
- 3. "°C" = Celsius degree
- 4. MDL= Method Detection Limit
- 5. ND = Not Detected, less than MDL
- 6. The specification was quoted from Council of Europe Resolution AP (2004)5.



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2. Specific Migration of heavy metal (Nickel, Aluminium, Barium, Cobalt, Copper, Iron, Lithium,

Toot Homo	Result (	mg/kg)	MADL (mag/kg)		
Test Items	No.1 No.2		MDL (mg/kg)	Limit (mg/kg)	
Specific migration of Nickel*	ND	ND ND	0.01	0.02	
Specific migration of Aluminium*	ND	ND	0.1	1	
Specific migration of Barium	ND	ND	0.1	CT IN IN	
Specific migration of Cobalt	ND	ND	0.01	0.05	
Specific migration of Copper	ND	ND	w 0.1 w	5 000	
Specific migration of Iron	ND	ND	6 (10 0.1 (10 th	48	
Specific migration of Lithium	ND	ND	0.01	0.6	
Specific migration of Manganese	ND ND	ND ND	0.01	0.6	
Specific migration of Zinc	ND	ND	0.1	5 15	





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Test Items	Result	(mg/kg)	ADDIVING A SUIT	Limit (mg/kg)
restitems	No.3	No.4	MDL (mg/kg)	
Specific migration of Nickel*	ND	ND NO	0.01	0.02
Specific migration of Aluminium*	ND	ND	0.1	LIFEK MITER
Specific migration of Barium	ND	ND	0.1	1,
Specific migration of Cobalt	ND	ND ND	0.01	0.05
Specific migration of Copper	ND	ND	0.1	5 11
Specific migration of Iron	ND	MND W	0.1	48
Specific migration of Lithium	ND	ND	0.01	0.6
Specific migration of Manganese	ND	ND	0.01	0.6
Specific migration of Zinc	ND THE	ND 0	0.1	5

## Note:

- 1. Test Method: With reference to EN 13130-1: 2004, sample preparation in 3% acetic acid at 70°C for 2 hours, analysis was performed by ICP-OES.
- 2. "mg/kg" = milligram per kilogram of foodstuff in contact with
- 3. MDL= Method Detection Limit
- 4. ND = Not Detected, less than MDL
- 5. The specification was quoted from (EU) No 10/2011 and its amendment (EU) 2016/1416 and (EU) 2017/752.
- 6. The testing item marked with '\*' does not been accredited by CNAS.





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# 3. Bisphenol A Content\*

Test Item	Result	(mg/kg)	MDL (mg/kg)	Limit (mg/kg)
restitem	No.1	No.2	MDE (mg/kg)	
Bisphenol A	ND ND	ND ND	0.1, mil	Not Detected (<0.1mg/kg)

Tak kamatat St	Result (mg/kg)		MDI (maylisa)	Limit (ma/ka)	
Test Item	No.3	No.4	No.5	MDL (mg/kg)	Limit (mg/kg)
Bisphenol A	ND ND	ND	ND	0.1	Not Detected (<0.1mg/kg)

## Note:

- 1. Test Method: With reference to US EPA 3540C-1996, analysis was performed by GC-MS.
- 2. "mg/kg" = milligram per kilogram
- 3. MDL= Method Detection Limit
- 4. ND = Not Detected, less than MDL
- 5. The specification was quoted from Law No 2012-1442.
- 6. The testing item marked with '\*' does not been accredited by CNAS.

# Sample Photo:





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Photograph of parts tested:

No.	Photo of testing part	Parts Description	Client Claimed Material
ntiff 1 m	5 10 u qu 115 a u s p20 n 22 n 25 n 22 30 n 2 2 4	Blue plastic	JUNITER WALTER
TEX WALLEY	5	Blue plastic	Mariet Whitek Whitek
t mit mit mit mit mit mit mit mit mit mi	***** 5 5 5 1 4 4 10 10 12 12 11 15 16 17 18 10 20 17 22 22 25 25 27 28 230 18 22 23 25 25 25	Transparent plastic	JUNITER WHITE WHIT
	55 - 5 - 100 u u u u 15 m u u 20 u u u u 25 m u n 20 u u u u 25 m u n 25 m	Blue plastic	Tritan while

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No.	Photo of testing part	Parts Description	Client Claimed Material
WILEY .		TEK TEK TI	t with whilet whitek
5		Translucent silicone rubber	Silicone rubber
WALT		LIEK WALTER WALTER	TEX MULTER MULTER MULT
OLIEK	5 6 7 8 9 10 11 12 13 11 15 16 17 18 19 20 21 22 23 21 25 2	5 27	ex liex wifex writer

===== End of Report =====

