
Test Report

Report No. : AGC05443220437-001

SAMPLE NAME : Glove with cake utensils
MODEL NAME : MO6647
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : May 26, 2022

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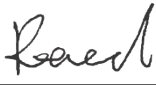


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Applicant : MID OCEAN BRANDS B.V
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

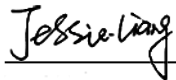
Report on the submitted sample(s) said to be:

Sample Name : Glove with cake utensils
Model : MO6647
Country of origin : CHINA
Country of destination : EUROPE
Vendor code : 104438
Sample Received Date : Apr.20, 2022
Testing Period : Apr.20, 2022 to May 26, 2022

Approved by: 

Qinlian zhi, Reed

Laboratory Supervisor

Approved by: 

Liangdan, Jessie.Liang

Technical Director

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 26, 2022	Valid	Initial release

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Test Requested:	Conclusion
1. As specified by client, to determine the Aromatic Amines Azodyes(AZO) content in the submitted sample(s) with reference to entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
2. As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
3. As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
4. As specified by client, to test sample with reference to food for compliance with Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9. for metal: - Extractable heavy metal	Pass
5. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Regulation(EU) No 10/2011& (EU)2018/213& (EU) 2020/1245 for PP: - Overall Migration (3% Acetic acid, 50% ethanol) - Bisphenol A(BPA) content - Specific Migration of Aromatic Amines - Specific Migration of Heavy metals	Pass Pass Pass Pass
6. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5, Regulation(EU) No 10/2011&(EU)2018/213 for silicone: - Overall Migration (3% Acetic acid, 50% ethanol) - Specific migration of Bisphenol A(BPA) - Bisphenol A(BPA) content	Pass Pass Pass
7. As specified by client, to test sample with reference to DM-4B-COM-003-v01, French Act 2012-1442. -Peroxide value -Volatile Organic Matter -Specific Migration of Organotin (measured as Tin)	Pass Pass Pass
8. As specified by client, to determined for mechanical dishwashing safe test.	/
9. As specified by client, to determine Colour fastness to rubbing in the submitted sample(s).	Pass

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Test Result:
1. Test Result of Aromatic Amines Azodyes(AZO) Content

Test Item	CAS No.	Test Method/ Instrument	MDL	Limit
4-Aminobiphenyl	92-67-1	EN ISO 14362-1:2017 / GC-MS	5mg/kg	≤30mg/kg
Benzidine	92-87-5		5mg/kg	≤30mg/kg
4-Chloro-o-Toluidine	95-69-2		5mg/kg	≤30mg/kg
2-Naphthylamine	91-59-8		5mg/kg	≤30mg/kg
4-amino-2',3-dimethylazobenzene	97-56-3		5mg/kg	≤30mg/kg
5-Nitro-o-toluidine	99-55-8		5mg/kg	≤30mg/kg
4-Chloroaniline	106-47-8		5mg/kg	≤30mg/kg
4-Methoxy-m-phenylenediamine	615-05-4		5mg/kg	≤30mg/kg
4,4'-Diaminodiphenylmethane	101-77-9		5mg/kg	≤30mg/kg
3,3'-Dichlorobenzidine	91-94-1		5mg/kg	≤30mg/kg
3,3'-Dimethoxybenzidine	119-90-4		5mg/kg	≤30mg/kg
3,3'-Dimethylbenzidine	119-93-7		5mg/kg	≤30mg/kg
4,4'-Methylenedi-o-toluidine	838-88-0		5mg/kg	≤30mg/kg
6-methoxy-m-toluidine	120-71-8		5mg/kg	≤30mg/kg
4,4'-methylenebis[2-chloroaniline]	101-14-4		5mg/kg	≤30mg/kg
4,4'-Oxydianiline	101-80-4		5mg/kg	≤30mg/kg
4,4'-Thiodianiline	139-65-1		5mg/kg	≤30mg/kg
2-Aminotoluene	95-53-4		5mg/kg	≤30mg/kg
4-methyl-m-phenylenediamine	95-80-7		5mg/kg	≤30mg/kg
2,4,5-Trimethylaniline	137-17-7		5mg/kg	≤30mg/kg
2-Methoxyaniline	90-04-0	5mg/kg	≤30mg/kg	
4-Aminoazobenzene ^a	60-09-3	5mg/kg	≤30mg/kg	

Note: ^a The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to aniline and/or 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017 .

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Test Item(s)	Result(s) (mg/kg)
	1-1*
4-Aminobiphenyl	N.D.
Benzidine	N.D.
4-Chloro-o-Toluidine	N.D.
2-Naphthylamine	N.D.
4-amino-2',3-dimethylazobenzene	N.D.
5-Nitro-o-toluidine	N.D.
4-Chloroaniline	N.D.
4-Methoxy-m-phenylenediamine	N.D.
4,4'-Diaminodiphenylmethane	N.D.
3,3'-Dichlorobenzidine	N.D.
3,3'-Dimethoxybenzidine	N.D.
3,3'-Dimethylbenzidine	N.D.
4,4'-Methylenedi-o-toluidine	N.D.
6-methoxy-m-toluidine	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.
4,4'-Oxydianiline	N.D.
4,4'-Thiodianiline	N.D.
2-Aminotoluene	N.D.
4-methyl-m-phenylenediamine	N.D.
2,4,5-Trimethylaniline	N.D.
2-Methoxyaniline	N.D.
4-Aminoazobenzene	N.D.
Conclusion	Conformity

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2. Test Result of Cadmium(Cd)Content

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)
Limit(mg/kg)	<100
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1*	N.D.	Conformity
1-2	N.D.	Conformity
1-3*	N.D.	Conformity
1-5	N.D.	Conformity

3. Test Result of Lead(Pb)Content

Test Item	Lead(Pb) (CAS No.: 7439-92-1)
Limit(mg/kg)	<500
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1*	N.D.	Conformity
1-2	N.D.	Conformity
1-3*	N.D.	Conformity
1-4	N.D.	Conformity
1-5	N.D.	Conformity

Note:

mg/kg =milligram per kilogram
MDL = Method Detection Limit

N.D.=Not Detected(less than method detection limit)

Remark:

- *=As specified by client, the submitted samples were mixed to test.

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4. Test result of Extractable heavy metal

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1 st + 2 nd extractives	
			1-4	
Barium (Ba)	0.5% Citric acid / 70°C, 2h ICP-OES	0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	7.070	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	0.337	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	0.134	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)		0.005	N.D.	0.07
Nickel (Ni)		0.01	0.203	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)	0.01	N.D.	0.07	
Conclusion		/	Conformity	/

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3 rd extractives	
			1-4	
Barium (Ba)	0.5% Citric acid / 70°C, 2h ICP-OES	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	2.128	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	0.105	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	0.071	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)	0.01	N.D.	0.01	
Conclusion		/	Conformity	/

Note: -MDL=method detection limit
 -N.D.=not detected (less than method detection limit)

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5.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)			Limit
			1-5			
			1 st extractives	2 nd extractives	3 rd extractives	
3% Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
50% Ethanol		5	N.D.	N.D.	N.D.	10
Conclusion	/	/	Conformity			/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

5.2 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			1-5	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	Absent
Conclusion	/	/	Conformity	/

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-N.D.=not detected (less than method detection limit)

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5.3 Specific migration of Primary aromatic amines

Test Item(s)	MDL (mg/kg)	Limit (mg/kg)
4-Aminobiphenyl	0.002	N.D.
Benzidine	0.002	N.D.
4-Chloro-o-Toluidine	0.002	N.D.
2-Naphthylamine	0.002	N.D.
4-amino-2',3-dimethylazobenzene	0.002	N.D.
5-Nitro-o-toluidine	0.002	N.D.
4-Chloroaniline	0.002	N.D.
4-Methoxy-m-phenylenediamine	0.002	N.D.
4,4'-Diaminodiphenylmethane	0.002	N.D.
3,3'-Dichlorobenzidine	0.002	N.D.
3,3'-Dimethoxybenzidine	0.002	N.D.
3,3'-Dimethylbenzidine	0.002	N.D.
4,4'-Methylenedi-o-toluidine	0.002	N.D.
6-methoxy-m-toluidine	0.002	N.D.
4,4'-methylenebis[2-chloroaniline]	0.002	N.D.
4,4'-Oxydianiline	0.002	N.D.
4,4'-Thiodianiline	0.002	N.D.
2-Aminotoluene	0.002	N.D.
4-methyl-m-phenylenediamine	0.002	N.D.
2,4,5-Trimethylaniline	0.002	N.D.
2-Methoxyaniline	0.002	N.D.
4-Aminoazobenzene	0.002	N.D.
1,3 phenylenediamine	0.002	N.D.
Total of other primary aromatic amines	0.01	0.01

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Test Item(s)	Test Result(mg/kg)
	1-5
	3% Acetic acid 70°C, 2h
4-Aminobiphenyl	N.D.
Benzidine	N.D.
4-Chloro-o-Toluidine	N.D.
2-Naphthylamine	N.D.
4-amino-2',3-dimethylazobenzene	N.D.
5-Nitro-o-toluidine	N.D.
4-Chloroaniline	N.D.
4-Methoxy-m-phenylenediamine	N.D.
4,4'-Diaminodiphenylmethane	N.D.
3,3'-Dichlorobenzidine	N.D.
3,3'-Dimethoxybenzidine	N.D.
3,3'-Dimethylbenzidine	N.D.
4,4'-Methylenedi-o-toluidine	N.D.
6-methoxy-m-toluidine	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.
4,4'-Oxydianiline	N.D.
4,4'-Thiodianiline	N.D.
2-Aminotoluene	N.D.
4-methyl-m-phenylenediamine	N.D.
2,4,5-Trimethylaniline	N.D.
2-Methoxyaniline	N.D.
4-Aminoazobenzene	N.D.
1,3 phenylenediamine	N.D.
Total of other primary aromatic amines	N.D.
Conclusion	Conformity

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

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5.4 Test Result(s) of Migration of Heavy metals

Test Item(s)	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
			1-5			
			1 st extractives	2 nd extractives	3 rd extractives	
Barium (Ba)	3% Acetic acid/ 70°C, 2h/ ICP-OES/ IC	0.1	N.D.	N.D.	N.D.	1
Cobalt (Co)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li)		0.1	N.D.	N.D.	N.D.	0.6
Manganese (Mn)		0.1	N.D.	N.D.	N.D.	0.6
Zinc (Zn)		0.25	N.D.	N.D.	N.D.	5
Aluminum (Al)		0.1	N.D.	N.D.	N.D.	1
Europium (Eu)		0.01	N.D.	N.D.	N.D.	/
Gadolinium (Gd)		0.01	N.D.	N.D.	N.D.	/
Lanthanum (La)		0.01	N.D.	N.D.	N.D.	/
Terbium (Tb)		0.01	N.D.	N.D.	N.D.	/
Sum(Eu+Gd+La+Tb)		/	N.D.	N.D.	N.D.	0.05
Antimony (Sb)		0.01	N.D.	N.D.	N.D.	0.04
Arsenic (As)		0.01	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)		0.002	N.D.	N.D.	N.D.	N.D.
Chromium (Cr)		0.01	N.D.	N.D.	N.D.	N.D.
Lead (Pb)		0.01	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)		0.01	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)		0.01	N.D.	N.D.	N.D.	0.02
Conclusion		/	Conformity			/
Ammonium (NH ₄ ⁺)		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	0.050	N.D.	N.D.	/
Magnesium (Mg)		0.01	N.D.	N.D.	N.D.	/
Potassium (K)		0.01	0.076	N.D.	N.D.	/
Sodium (Na)		0.01	0.079	N.D.	0.017	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

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6.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)		Limit
			1-8	1-9	
3% Acetic acid	70°C, 2h	5	N.D.	5.9	10
50% Ethanol		5	N.D.	N.D.	10
Conclusion	/	/	Conformity	Conformity	/

Note: -MDL=method detection limit
 -N.D.=not detected (less than method detection limit)

6.2 Test result of Specific migration of Bisphenol A(BPA)

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)		Limit
			1-8	1-9	
Specific migration of Bisphenol A(BPA)	3% Acetic acid 70°C, 2h / LC-MS-MS	0.02	N.D.	N.D.	0.05
Conclusion	/	/	Conformity	Conformity	/

Note: -MDL=method detection limit
 -N.D.=not detected (less than method detection limit)

6.3 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit (Client's Requirement)
			1-8	1-9	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	N.D.	Absent
Conclusion	/	/	Conformity	Conformity	/

Note: -MDL=method detection limit
 -N.D.=not detected (less than method detection limit)

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7.1 Test Result(s) of Peroxide value

Unit: %

Test Item	MDL	Result(s)		Limit
		1-8	1-9	
Peroxide value	0.2	Absent	Absent	Absent
Conclusion	/	Conformity	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

7.2 Test result of Volatile Organic Matter

Unit: %,w/w

Test item(s)	Test Condition	MDL	Result(s)		Limit
			1-8	1-9	
Volatile Organic Matter	200°C, 4h	0.1	0.13	0.31	0.5
Conclusion		/	Conformity	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)
-0.1%,w/w =1000mg/kg
- Test result on specimen No.1-8, No.1-9 was resubmitted on May 18, 2022.

7.3 Test result of Specific Migration of Organotin (measured as Tin)

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)		Limit
			1-8	1-9	
Specific Migration of Organotin (measured as Tin)	3% Acetic acid 70°C, 2h / ICP-OES	0.01	N.D.	N.D.	0.1
Conclusion	/	/	Conformity	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

8. Test Result of mechanical dishwashing safe test:

Sample: Glove with cake utensils

Test method: BS EN 12875-1:2005

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 4(four) pc(s).

Number of control sample: 4(four) pc(s).

For all tested plastic or metal articles:

- 1) No visible change of color, gloss and clouding was found on the tested samples after wash.
- 2) No visible deposit or iridescent layer was found on the tested samples after wash.
- 3) No visible swelling, deformation, cracking, crazing or delaminate on was found on the tested samples after wash.

9. Test Results of Colour fastness to rubbing

Test Method: ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 20°C, 65 %R.H., 4hrs

The long direction of the specimen: Warp/Weft

The percentage of soak of wet rubbing cloth: 95%~100%

Test point	Test Result		Conclusion
	Colour fastness to rubbing / (Grade)		
	Dry rubbing	Wet rubbing	
1-6	4-5	4	Conformity
1-7	4	4	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

Note:

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

Grade 1 = Colour Change Seriously (Bad Grade)

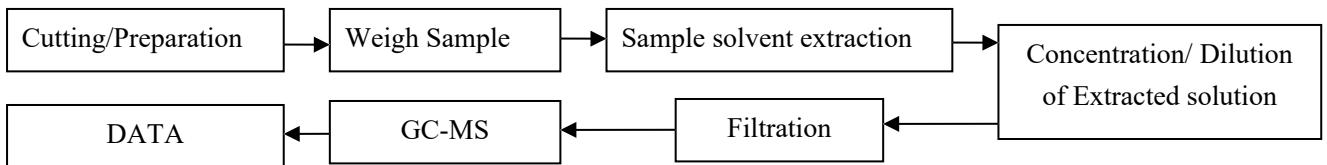
9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

Test Point Description

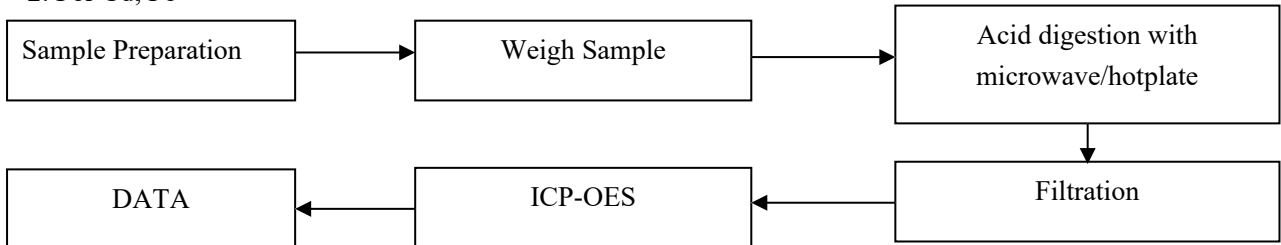
Test point	Test point description
1	Glove with cake utensils
1-1	Red cloth+Black cloth
1-2	White fabric
1-3	Red silicone(egg beater)+Black silicone(egg beater)
1-4	Metal handle(egg beater)
1-5	Transparent plastic handle
1-6	Red cloth
1-7	Black cloth
1-8	Red silicone(egg beater)
1-9	Black silicone(egg beater)

Test Flow Chart

1. For AZO



2. For Cd, Pb



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The photo of the sample**AGC05443220437-001**

AGC authenticate the photo only on original report

*** End of Report ***

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