



**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Overall migration test (3% Acetic acid)

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



**Note:** (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

Chemical/Microbiology Laboratory:  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai  
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Regional Head Office:  
TÜV SÜD Certification and Testing  
(China) Co., Ltd.  
No.151 Heng Tong Road Shanghai  
200 070 P.R.China





**RECEIPT DATE / TEST DATE**

17-Sep-2020/ 17-Sep-2020

**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED**

**BY/ ON BEHALF OF THE CLIENTS AS**

Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Overall Migration Test

- Test method: As specified in REGULATION (EU) No 10/2011 and its amendments; with reference to EN 1186: Part 5 (Test methods for overall migration into aqueous food simulants by cell)
- Migration ratio(S/V): 10 dm<sup>2</sup>/L.

Simulant(s) Used	Test Condition	Result(s) [mg/dm <sup>2</sup> ]	Maximum Permissible Limit [mg/dm <sup>2</sup> ]
3% Acetic acid	40°C for 2 hours	2.65	10

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-END OF THE TEST REPORT-



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**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Overall migration test (10% Ethanol)

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorized By



( Leo Liu )  
Authorized Signatory



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Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Overall Migration Test

- Test method: As specified in REGULATION (EU) No 10/2011 and its amendments; with reference to EN 1186: Part 5 (Test methods for overall migration into aqueous food simulants by cell)
- Migration ratio(S/V): 10 dm<sup>2</sup>/L.

Simulant(s) Used	Test Condition	Result(s) [mg/dm <sup>2</sup> ]	Maximum Permissible Limit [mg/dm <sup>2</sup> ]
10% Ethanol	40°C for 2 hours	<0.500	10

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**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

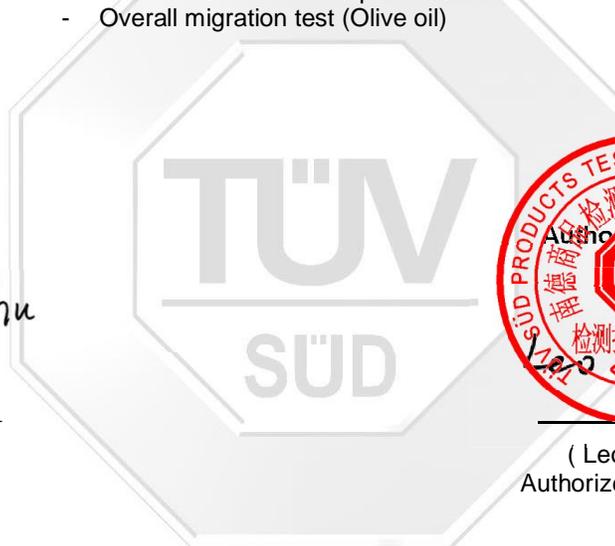
- Overall migration test (Olive oil)

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter



( Leo Liu )  
Authorized Signatory



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Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Overall Migration Test

- Test method: As specified in REGULATION (EU) No 10/2011 and its amendments; with reference to EN 1186 : Part 4 (Test methods for overall migration into olive oil by cell)
- Migration ratio(S/V): 10 dm<sup>2</sup>/L.

Simulant(s) Used	Test Condition	Result(s) [mg/dm <sup>2</sup> ]	Maximum Permissible Limit [mg/dm <sup>2</sup> ]
Olive oil	40°C for 2 hours	<0.500	10

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**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Specific migration of Primary Aromatic Amine

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



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Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Specific migration of Primary Aromatic Amine

- Test method: With reference to EN 13130-1:2004, followed by Kunststoffe im Lebensmittelverkehr, Book 2, Teil B II, XXI
- Test condition: 3% Acetic acid, 40°C for 2 hours
- Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Primary Aromatic Amine	<0.01	0.01

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**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

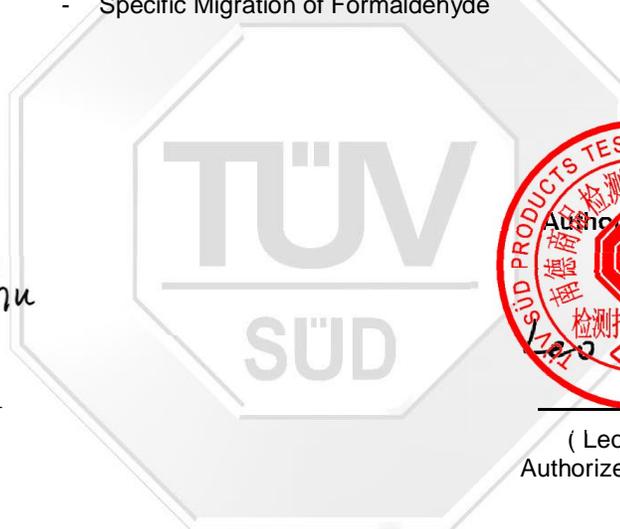
- Specific Migration of Formaldehyde

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter



( Leo Liu )  
Authorized Signatory



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Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Specific Migration of Formaldehyde

- Test method: With reference to DD CEN/TS 13130-23:2005 Materials and articles in contact with foodstuffs – Plastics substances subject to limitation – Part 23 Determination of formaldehyde and hexamethylenetetramine in food stimulants
- Test condition: 3% Acetic acid, 40°C for 2 hours
- Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Specific Migration of Formaldehyde	<1.0	3

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-END OF THE TEST REPORT-



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Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

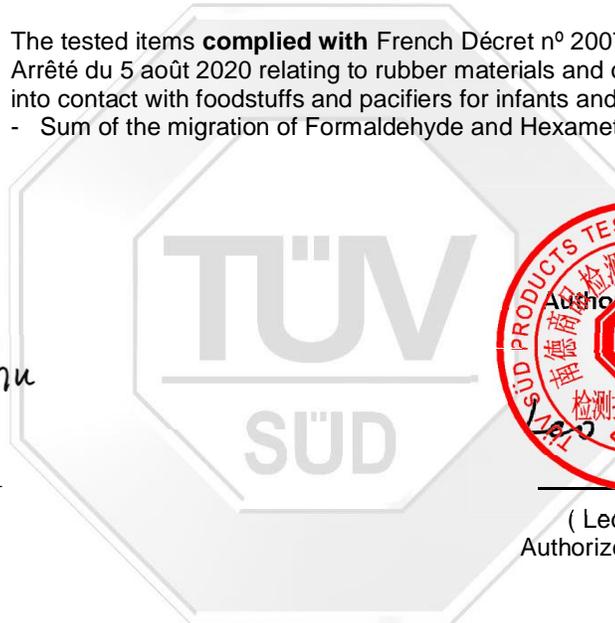
**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children  
- Sum of the migration of Formaldehyde and Hexamethylenetetramine

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter



( Leo Liu )  
Authorized Signatory



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**BY/ ON BEHALF OF THE CLIENTS AS**

Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

**TEST RESULT(S)**

- Sum of the migration of Formaldehyde and Hexamethylenetetramine
  - Test method: With reference to DD CEN/TS 13130-23:2005 Materials and articles in contact with :  
foodstuffs – Plastics substances subject to limitation – Part 23 Determination of formaldehyde and  
hexamethylenetetramine in food stimulants
  - Test condition: 3% Acetic Acid , 40°C for 2 hours
  - Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Sum of the migration of Formaldehyde and Hexamethylenetetramine	<1.0	15

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-END OF THE TEST REPORT-



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B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~27-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Specific Migration of N-nitrosamines and N-nitrosatable substances

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



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**RECEIPT DATE / TEST DATE**

17-Sep-2020/ 17-Sep-2020

**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED**

**BY/ ON BEHALF OF THE CLIENTS AS**

Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	





## TEST RESULT(S)

Note: The migration results in this report were tested and expressed based on single use articles.

### 1. Specific Migration of N-nitrosamines and N-nitrosatable substances

- Test method: Sample preparation with reference to EN 12868:1999, followed by analysis using GC-MS
- Test condition: 3% Acetic acid, 40°C for 2 hours
- Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [µg/dm <sup>2</sup> ]	Detected limit [µg/dm <sup>2</sup> ]	Maximum Permissible Limit [µg/dm <sup>2</sup> ]
N-nitrosamines	ND	1.0	1.0
N-nitrosatable substances	ND	10	10

Note: 1. ND denotes not detected and less than Detected limit

### 2. Tested N-nitrosamines are listed below:

	Compounds name	Abbreviation	CAS#
1	N-Nitrosodimethylamine	NDMA	62-75-9
2	N-nitrosodiethylamine	NDEA	55-18-5
3	N-nitrosopyrrolidine	NPYR	930-55-2
4	N-nitroso N-methyl N-phenylamine	NMPhA	614-00-6
5	N-nitrosomorpholine	NMOR	59-89-2
6	N-Nitrosodi-n-propylamine	NDPA	621-64-7
7	N-nitrosopiperidine	NPIP	100-75-4
8	N-nitroso N-ethyl N-phenylamine	NEPhA	612-64-6
9	N-Nitrosodi-n-butylamine	NDBA	924-16-3
10	N-nitrosodibenzylamine	NDBzA	5336-53-8
11	N-Nitrosodiisononylamine	NDiNA	1207995-62-7
12	N-nitrosomethylethylamine	NMEA	10595-95-6
13	N-nitrosodiisobutylamine	NDiBA	997-95-5

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**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Specific Migration of Acrylonitrile

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



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**BY/ ON BEHALF OF THE CLIENTS AS**

Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Specific Migration of Acrylonitrile

- Test method: With reference to EN13130-1:2004, with reference to EN 13130-3 Determination of acrylonitrile in food and food stimulants.
- Test condition: 95% Ethanol, 40°C for 2 hours
- Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Specific Migration of Acrylonitrile	ND	Not Detected (DL=0.02 mg/kg)

- Note:
1. ND denotes Not Detected and less than detection limit.
  2. DL denotes detection limit.
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**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Specific Migration of 1,3 - Butadiene

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



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Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Specific Migration of 1,3 - Butadiene

- Test method: With reference to EN13130-1:2004, with reference to EN 13130-15 Determination of 1,3-butadiene in food stimulants.
- Test condition: 95% Ethanol, 40°C for 2 hours
- Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Specific Migration of 1,3 - Butadiene	ND	Not Detected (DL=0.02 mg/kg)

- Note:
1. ND denotes Not Detected and less than detection limit.
  2. DL denotes detection limit.
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**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- 1,3 - Butadiene Content

**PASS**

Prepared By

*Judy hu*

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Report Drafter

Authorised By



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Chemical/Microbiology Laboratory:  
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B-3/4, No.1999 Du Hui Road, Minhang District  
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Regional Head Office:  
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(China) Co., Ltd.  
No.151 Heng Tong Road Shanghai  
200 070 P.R.China



**RECEIPT DATE / TEST DATE**

17-Sep-2020/ 17-Sep-2020

**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED**

**BY/ ON BEHALF OF THE CLIENTS AS**

Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. 1,3 - Butadiene Content

- Test method: With reference to EN 13130-4 Determination of 1,3-butadiene in plastics

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
1,3 - Butadiene Content	<0.1	1

Note: This report is for internal use only such as internal scientific research, education, quality control, product R&D.

-END OF THE TEST REPORT-





**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

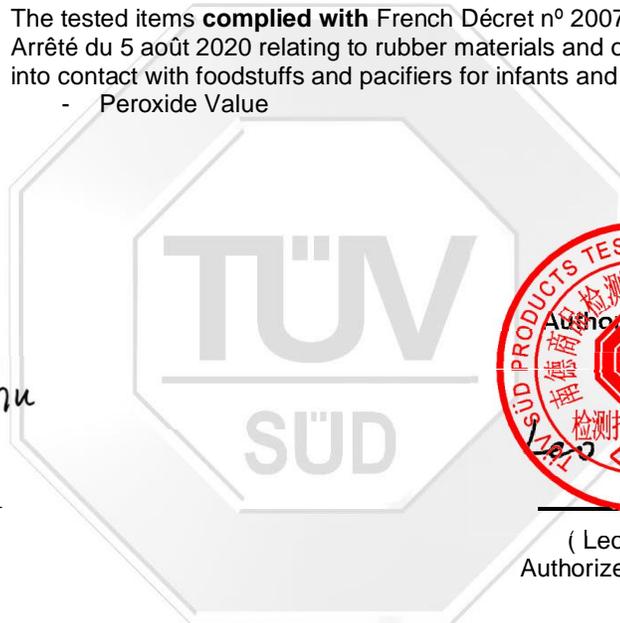
- Peroxide Value

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter



( Leo Liu )  
Authorized Signatory



**Note:** (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.



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**BY/ ON BEHALF OF THE CLIENTS AS**

Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Peroxide Value

- Test method: With reference to European pharmacopoeia, 2005 Appendix X F. Peroxide Value method A

Test Item(s)	Result(s)	Maximum Permissible Limit
Peroxide Value	Absent	Absent

Note: This report is for internal use only such as internal scientific research, education, quality control, product R&D.

-END OF THE TEST REPORT-



**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
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**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Volatile Organic Matters

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorized By



( Leo Liu )  
Authorized Signatory



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**RECEIPT DATE / TEST DATE**

17-Sep-2020/ 17-Sep-2020

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Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Volatile Organic Matters

- Test method: With reference to French Order of 5 August 2020 Annes VI
- Test condition: 105°C for 4 hours

Test Item(s)	Result(s) [%]	Maximum Permissible Limit [%]
Volatile Organic Matters	0.17	0.5

Note: This report is for internal use only such as internal scientific research, education, quality control, product R&D.

-END OF THE TEST REPORT-





**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Specific Migration of Heavy metals (Ba, Cu, Al, Zn)

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



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Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

- Specific Migration of Heavy metals (Ba, Cu, Al, Zn)
  - Test method: With reference to EN 13130-1:2004, followed by ICP-MS analyzed.
  - Test condition: 3% Acetic acid, 40°C for 2 hours
  - Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Barium	<0.1	1.2
Copper	<0.5	4
Aluminum	<0.1	1
Zinc	<1.0	5

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-END OF THE TEST REPORT-



**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Residues of impurities (Pb, Cd, Sb, Hg, As)

**PASS**

Prepared By

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



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Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Residues of impurities (Pb, Cd, Sb, Hg, As)
- Test method: Acid digestion, followed by ICP-MS analyzed.
  - Test condition: 3% Acetic acid, 40°C for 2 hours
  - Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Lead	<1.0	1
Cadmium	<1.0	1
Antimony	<1.0	1
Mercury	<1.0	1
Arsenic	<1.0	1

Note: This report is for internal use only such as internal scientific research, education, quality control, product R&D.

-END OF THE TEST REPORT-



**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** French Décret n° 2007-766 and its amendments, Arrêté du 5 août 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and pacifiers for infants and young children

- Specific Migration of Heavy metals (Pb, Ni, Cr VI)

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



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Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

- Specific Migration of Heavy metals (Pb, Ni, Cr VI)
  - Test method: With reference to EN 13130-1:2004, followed by ICP-MS analyzed.
  - Test condition: 3% Acetic acid, 40°C for 2 hours
  - Migration ratio(S/V): 6 dm<sup>2</sup>/L

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Lead	<0.01	0.01
Nickel	<0.002	0.14
Chromium (VI)	ND	Not Detected (DL=0.10 mg/kg)

- Note:
1. ND denotes Not Detected and less than detection limit.
  2. DL denotes detection limit.
  3. This report is for internal use only such as internal scientific research, education, quality control, product R&D.

-END OF THE TEST REPORT-



**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

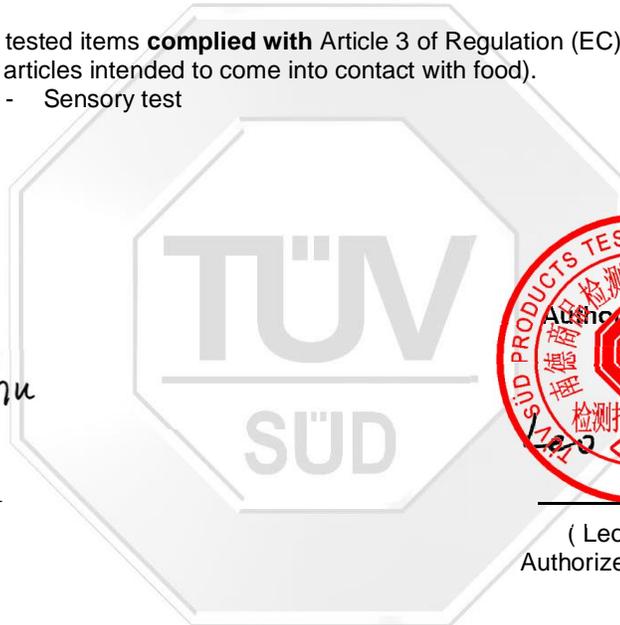
**RESULT SUMMARY** The tested items **complied with** Article 3 of Regulation (EC) No. 1935/2004 (Materials and articles intended to come into contact with food).  
- Sensory test

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter



( Leo Liu )  
Authorized Signatory



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**RECEIPT DATE / TEST DATE**

17-Sep-2020/ 17-Sep-2020

**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED**

**BY/ ON BEHALF OF THE CLIENTS AS**

Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Sensory test

- Test method: With reference to DIN 10955.
- The submitted sample was immersed in Distilled water at 40°C for 2 hours. After this treatment treated water was examined by panels with regard to any divergence in smell and taste.

Sample(s)	Testing Parameter	Grading result(s)	Recommended level
721658362-1	Transfer of taste	0	<3
	Transfer of smell	0	<3

- Note:
1. This report is for internal use only such as internal scientific research, education, quality control, product R&D.
  2. Available grading are listed as follow:  
Grading 0: No perceptible taste/smell deviation  
1: Just perceptible taste/smell deviation  
2: Weak taste/smell deviation  
3: Clear taste/smell deviation  
4: Strong taste/smell deviation

-END OF THE TEST REPORT-



**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-3/4, No.1999 Du Hui Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~09-Oct-2020

**RESULT SUMMARY** The tested items **complied with** France Law No. 2012-1442 of 24 December 2012 for the suspension of the manufacture, import, export and marketing of all-purpose food packaging containing bisphenol A.

- Bisphenol A content

**PASS**

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Authorised By



( Leo Liu )  
Authorized Signatory



**Note:** (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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Sample Name: Disposable Nitrile Gloves  
Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Bisphenol A content

- Test method: With reference to EPA3550C-2007
- The sample was extracted by acetonitrile, then Bisphenol A content of solution was analyzed by UPLC/MS/MS

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]
Bisphenol A content	ND	Not Detected (DL:0.1)

- Note:
1. ND denotes Not detected and less than detection limit.
  2. DL denotes detection limit
  3. This report is for internal use only such as internal scientific research, education, quality control, product R&D.

-END OF THE TEST REPORT-



**SUBJECT** Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
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**CLIENT NAME** Shijiazhuang Hongray Group Co., Ltd.

**CLIENT ADDRESS** South Tongda Rd., East Dist., Jinzhou City, Hebei, 052260, China

**TEST PERIOD** 17-Sep-2020~23-Sep-2020

**RESULT SUMMARY** The tested items **complied with** RESOLUTION Res AP (89) 1 On the use of colourants in plastic materials coming into contact with food.  
- Visible migration

PASS

Prepared By

*Judy hu*

( Judy Hu )  
Report Drafter

Autho By



( Leo Liu )  
Authorized Signatory



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Sample Specification: /  
Batch No./Date: /  
Manufacturer: Shijiazhuang Hongray Group Co., Ltd.

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721658362-1	Blue rubber glove	

**TEST RESULT(S)**

Note: The migration results in this report were tested and expressed based on single use articles.

1. Color release

- Test method: With reference to Res AP (89) 1, section III, paragraph 1

Simulant(s) Used	Test Condition	Result(s)	Permissible Limit
Distilled Water	50°C for 5 hours	No color fastness	No color fastness
3% Acetic acid	50°C for 5 hours	No color fastness	No color fastness
15% Ethanol	50°C for 5 hours	No color fastness	No color fastness
Peanut oil	50°C for 5 hours	No color fastness	No color fastness

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-END OF THE TEST REPORT-