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ISEGA – Forschungs- und Untersuchungs-Gesellschaft mbH Aschaffenburg

63704 Aschaffenburg, Postfach 100565
63741 Aschaffenburg, Zeppelinstr. 3-5
Germany
Telefon +49 (0) 60 21 / 49 89-0
Telefax +49 (0) 60 21 / 49 89-30
Email info@isega.de
http://www.isega.de

Aschaffenburg, 15 May 2013

From: Nickl
ci

REPORT

Order No.: 5568/6 **Page 1 of 3 pages**

Client: Shijiazhuang Hongray Group Co., Ltd
No 135, Xinhua West Road
050081 Shijiazhuang City, Hebei Province/ China

Date of order: 5 March 2013

Receipt of sample material: 7 March 2013

Origin of sample material: From the client

Purpose: Analysis of nitrile gloves for their compliance with the demands on food contact materials

(Dr. Derra)

(Nickl)
Diplomaed
food chemist

The present report refers exclusively to the samples as laid out therein. Information and statistical data on the results can be obtained on request.

Sample Material

For analysis the following sample material was in hand:

Blue Nitrile Gloves, Lot. # 1303C4A3-PF

Carrying out of the Tests

Examination period: 14 March 2013 to 3 April 2013

1. Determination of the specific Migration *

The determination was carried out according to the methods for the "Examination of consumer goods" corresponding to the directives B 80.30, 1 to 3 (EG) of the Official Collection of Analytical Methods according to § 64 LFGB and according to the rules of the series of standards EN 1186, EN 13130 and CEN/TS 14234 „Materials and articles in contact with foodstuffs - Plastics".

If not stated differently, the results are given as average values of determinations in triplicate.

Conditions: 10 minutes at 40 °C

Test simulants: ethanol 10 % (v/v)

Testing procedure: one-sided contact (exterior side)

N-Nitrosamines : The analysis was made in co-operation with Isconlab according to the method for the „Determination of the migration of N-nitrosamines from consumer goods into foodstuffs", 53rd memorandum, Bundesgesundheitsblatt 37, 232 (1994) in a cold water extract which had been prepared in accordance with DIN EN 645.

Result:

N-Nitrosodimethylamine	not detected	<	0.002	µg/dm²
N-Nitrosomethylethylamine	not detected	<	0.002	µg/dm²
N-Nitrosodiethylamine	not detected	<	0.002	µg/dm²
N-Nitrosodipropylamine	not detected	<	0.002	µg/dm²
N-Nitrosodibutylamine	not detected	<	0.002	µg/dm²
N-Nitrosomorpholine	not detected	<	0.002	µg/dm²
N-Nitrosopiperidine	not detected	<	0.002	µg/dm²
N-Nitrosopyrrolidine	not detected	<	0.002	µg/dm²
N-Nitrosodiisobutylamine	not detected	<	0.002	µg/dm²
N-Nitrosomethylphenylamine	not detected	<	0.01	µg/dm²
N-Nitrosoethylphenylamine	not detected	<	0.01	µg/dm²
N-Nitrosodiisononylamine	not detected	<	0.01	µg/dm²
N-Nitrosodibenzylamine	not detected	<	0.01	µg/dm²

2. Determination of the Heavy Metals Contents *

The determination was performed after microwave disintegration by AAS/hydride technique and ICP-AES respectively.

Result:

Lead	(Pb):	not determinable	<	0.0005	%
Zinc	(Zn):			0.80	%

The accreditation applies to the methods marked with * in the test report (Register no. D-PL-14160-01-00).

End of report