



**Test Report**

**No. SH555900/TX**

**Date: Aug 12, 2005**

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NINGBO V-BABY CO., LTD.

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : One sample of 100% cotton 220gm<sup>2</sup> interlock babies' garment in blue  
Buyer : Valery  
Style No. : S065  
Order No. : DEAKCY02  
Manufacturer : Ningbo V-body Co., Ltd.  
Country of Destination : Germany  
Test Performed : Selected test(s) as requested by applicant  
\* \* \* \* \*  
Sample Receiving Date : AUG. 09, 2005  
Test Performing Date : AUG. 10, 2005  
Test Result(s) : For further details, please refer to the following page(s).

Signed for and on behalf of  
SGS-CSTC Ltd.

Katherine Xu (Account Executive)

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**Test Result**
**Detection and Determination of Certain Listed Aromatic Amines Derived from Azo**
**Colorants**

As per EN 14362-1:2003 & § 35 LMBG 82.02.Z (July 2004) - Direct test on coloured textiles – Detection of the use of certain azo colorants that are accessible to reducing agents without extraction with the use of Gas Chromatographic Mass Spectrometry (GC-MS)/Thin Layer Chromatography (TLC) Technique

<u>No.</u>	<u>Forbidden Amines Substances</u>	<u>CAS-No.</u>	<u>Result body</u>
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	n.d.
2.	Benzidine	92-87-5	n.d.
3.	4-chlor- <i>o</i> -toluidine	95-69-2	n.d.
4.	2-naphthylamine	91-59-8	n.d.
5.	<i>o</i> -aminoazotoluene/ 4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	n.d.
6.	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	n.d.
7.	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	n.d.
8.	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	n.d.
9.	4,4'-diaminodiphenylmethane/ 4,4'-methylenedianiline	101-77-9	n.d.
10.	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	n.d.
11.	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	n.d.
12.	3,3'-dimethylbenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	n.d.
13.	3,3'-dimethyl-4,4'-diaminodipenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	n.d.
14.	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	n.d.
15.	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	n.d.
16.	4,4'-oxydianiline	101-80-4	n.d.
17.	4,4'-thiodianiline	139-65-1	n.d.
18.	<i>o</i> -toluidine/2-aminotoluene	95-53-4	n.d.
19.	2,4-toluylendiamine/ 4-methyl- <i>m</i> -phenylenediamine	95-80-7	n.d.
20.	2,4,5-trimethylaniline	137-17-7	n.d.
21.	4-aminoazobenzene*	60-09-3	n.d.
22.	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	n.d.
23.	2,4-Xylidine	95-68-1	n.d.
24.	2,6-Xylidine	87-62-7	n.d.
<b>Overall Rating</b>			<b>PASS</b>

Relevant Requirement (2002/61/EC) :

No relevant amine exceeding 30 ppm (mg/kg)

Note : n.d. = not detectable

Detection Limit = 5 ppm (mg/kg)

\*: the EN 14362 - 1 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of § 35 LMBG 82.02.Z was employed to verify the presence of 4-aminoazobenzene

EN 14362-1 for European directive 2002/61/EC is corresponding to §35 LMBG B 82.02-2 of German Commodities Ordinance.

### **Forbidden Arylamines for Azo Dye Regulations**

- No. 1-22 – Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002
- No. 1-20, 22-24 – Client requirement

Comment : Based on the test result, azo colorants which can release one or more of the listed amines by cleavage of their azo group/s were not detected in sample (s) or the commodity submitted.

### **Free Formaldehyde Content** (DIN EN ISO 14184-1-1999)

(ppm) body  
n.d.

Note: (1) n.d. = not detectable  
(2) Detection Limit = 20 ppm

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## Disperse Dyes

Test Item(s)	CAS No.	Result	Spec.
	---	body	---
C.I. Disperse Blue 1 Structure No: C.I. 64 500	2475-45-8	ND	ND
C.I. Disperse Blue 3 Structure No: C.I. 61 505	2475-46-9	ND	ND
C.I. Disperse Blue 7 Structure No: C.I. 62 500	3179-90-6	ND	ND
C.I. Disperse Blue 26 Structure No: C.I. 63 305	3860-63-7	ND	ND
C.I. Disperse Blue 35	12222-75-2	ND	ND
C.I. Disperse Blue 102	12222-97-8	ND	ND
C.I. Disperse Blue 106	12223-01-7	ND	ND
C.I. Disperse Blue 124	61951-51-7	ND	ND
C.I. Disperse Brown 1	23355-64-8	ND	ND
C.I. Disperse Orange 1 Structure No: C.I. 11 080	2581-69-3	ND	ND
C.I. Disperse Orange 3 Structure No: C.I. 11 005	730-40-5	ND	ND
C.I. Disperse Orange 37/76	13301-61-6	ND	ND
C.I. Disperse Red 1 Structure No: C.I. 11 110	2872-52-8	ND	ND
C.I. Disperse Red 11 Structure No: C.I. 11 110	2872-48-2	ND	ND
C.I. Disperse Red 17 Structure No: C.I. 11 210	3179-89-3	ND	ND
C.I. Disperse Yellow 1 Structure No: C.I. 10 345	119-15-3	ND	ND
C.I. Disperse Yellow 3 Structure No: C.I. 11 855	2832-40-8	ND	ND
C.I. Disperse Yellow 9 Structure No: C.I. 10 375	6373-73-5	ND	ND
C.I. Disperse Yellow 39	12236-292	ND	ND
C.I. Disperse Yellow 49	54824-37-2	ND	ND
Overall Rating		PASS	

Method: DIN NMP 512 WD / HPLC-DAD-MS

ND- Not detected

Detection Limit : 20ppm (mg/kg)

\*\*\*End of Report\*\*\*