

**Test Report No. VNT/H/24/002900.R1**  
**Dated JAN. 20, 2025**



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Applicant : **VIET LUSH GLOBAL**  
Address : Schreiberstr. 27, 70199 Stuttgart, Germany  
Attention : Nguyen Hai Minh  
Received Date : Nov. 22, 2024  
Confirmation Dated : Nov. 28, 2024  
Test Period : From Nov. 29, 2024 to Dec. 05, 2024  
Sample Description : Bambus Schüssel  
Phase/Stage of Production : Development  
Manufacturer : Viet Lush  
Country Of Origin : VIET NAM  
Country Of Destination : GERMANY



The results reported herein have been performed in accordance with the terms of accreditation under the Vietnam Bureau of Accreditation. Tests marked “#” “Not Accredited” in this Report are not included in the BoA Accreditation Schedule for our laboratory.

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**Result Summary/ Conclusion:**

No.	Test parameter(s)	Conclusion
1.	Regulation (Ec) No 1935/2004 of The European Parliament and of The Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC - Sensorial Examination	Pass/ See Result(s)
2.	Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food - Overall Migration	
2.1	Overall Migration Test - 3% Acid Acetic for 2 hours at 70°C <sup>(#)</sup>	Pass/ See Result(s)
2.2	Overall Migration Test - 10% Ethanol for 2 hours at 70°C <sup>(#)</sup>	Pass/ See Result(s)
2.3	Overall Migration Test - Isooctane for 30 minutes at 40°C <sup>(#)</sup>	Pass/ See Result(s)
3.	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments - Specific Migration of Formaldehyde	Pass/ See Result(s)
4.	Regulation (Ec) No 1935/2004 of The European Parliament and of The Council of 27 October 2004 on materials and articles intended to come into contact with food and 89/109/EEC and repealing Directives 80/590/EEC - Specific Migration of Primary Aromatic Amines (PAA) <sup>(#)</sup>	Pass/ See Result(s)
5.	Pentachlorophenol (PCP) content	Data/ See Result(s)
6.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII, item no. 63 and its amendments - Total Lead Content	Pass/ See Result(s)
7.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII, item no. 23 and its amendments - Total Cadmium Content	Pass/ See Result(s)
8.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII, item no. 51, 52 and its amendments - Phthalates Content	Pass/ See Result(s)
9.	AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)	Pass/ See Result(s)

**Note(s):**

- The submitted sample(s) is Not Drawn by the Laboratory.
- This testing result is only valid on the tested sample.
- The test report shall not be reproduced except in full without the written approval of the laboratory.
- Conclusion on Pass/Fail are base on the test result from the actual received sample(s).
- Regulation (Ec) No 1935/2004 Of The European Parliament And Of The Council of 27 October 2004 on materials and articles intended to come into contact with food and 89/109/EEC and repealing Directives 80/590/EEC; Commission Regulation (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food; Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food Text with EEA relevance.
- This test report is issued to amend the original report No. VNT/H/24/002900 at below points as client's request on Jan. 17, 2025. This test report is replaced for test report number No. VNT/H/24/002900.
  - Remove the test results of "Overall Migration Test - 50% Ethanol"; "Overall Migration Test - 90% Ethanol" (Page 2 and Page 4)
  - Change the information for Manufacturer (Page 1)
  - Add "PHOTO(S) OF SAMPLES PROVIDED BY CLIENT FOR REFERENCE ONLY" (Page 11, Page 12)





# **MATERIAL ANALYSIS (AS IDENTIFIED BY LAB)**

Sample No.	Component	Material	Color	Material No.
Sample 1	Bamboo bowl (Whole sample)	Bamboo with grey coating outside	Natural/ Grey	001
	Inner part of bamboo bowl	Coated bamboo	Natural	002
	Coating on outside of bamboo bowl	Coating	Grey	003

## **TEST RESULT(S):**

### **1. Regulation (Ec) No 1935/2004 of The European Parliament and of The Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC - Sensorial Examination**

Test Method: With reference to DIN 10955:2004

Test condition: 40°C for 2 hours

Test media: Cucumber, DI water

No. of panelist: 5

Test Results:

Test Media	Test Item(s)	Result	Maximum Permissible Limit
		002	
Cucumber	Sensorial examination odour	0.5	2.5
	Sensorial examination taste	0	2.5
Conclusion		Pass	--

Note(s): Intensity scale (rounded at 0.5):

- 0 - No perceptible difference
- 1 - Just perceptible difference
- 2 - Slight difference
- 3 - Marked difference
- 4 - Strong difference

Remark: Test condition & test media were specified by client.





**2. Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food - Overall Migration**

Test Method: With reference to EN 1186-3:2022 (Test methods for overall migration in evaporable simulants) (1<sup>st</sup> migration)

No.	Simulant Used	Test Condition	Result (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )	Conclusion
			002		
2.1.	3% Acetic Acid (V/V) Aqueous Solution	2 hours at 70°C	3.4	10	Pass
2.2.	10% Ethanol (V/V) Aqueous Solution	2 hours at 70°C	3.7	10	Pass
2.3.	Isooctane	30 minutes at 40°C	N.D.	10	Pass

Note(s):

1. Test condition & simulants were specified by client.
2. mg/dm<sup>2</sup> = milligram per square decimeter
3. N.D = Not Detected (< Reporting limit)
4. Reporting limit = 3 mg/dm<sup>2</sup>

**3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments - Specific Migration of Formaldehyde**

Test method: The sample retreatment with reference to EN 13130-1:2004, analysis was performed by UV-Vis Spectrophotometer with reference to CEN/TS 13130-23:2005.

Test Condition and simulant used: 3% Acetic acid at 40°C in 24 hours (1<sup>st</sup> Migration)

Test parameter	CAS No.	Result [mg/kg]	Maximum Permissible Limit (mg/kg)
		002	
Specific migration of Formaldehyde	50-00-0	N.D.	< 15
<b>Conclusion</b>		<b>Pass</b>	--

Note(s):

1. Test condition & simulant were specified by client.
2. mg/kg = milligram per kilogram of foodstuff in contact with
3. N.D = Not Detected (< Reporting limit)
4. Reporting limit = 1 mg/kg



**4. REGULATION (EC) No 1935/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 October 2004 on materials and articles intended to come into contact with food and 89/109/EEC and repealing Directives 80/590/EEC - Specific Migration of Primary Aromatic Amines (PAA)**

Test method: With reference to EN 13130-1:2004 and analysis by LC-MS-MS

Test condition and simulant used: 3% acetic acid at 40°C for 2 hours (1<sup>st</sup> migration)

Test parameter(s)	CAS No.	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
		002	
4-aminobiphenyl	92-67-1	N.D.	0.002
o-anisidine	90-04-0	N.D.	0.002
Benzidine	92-87-5	N.D.	0.002
4-Chloro-aniline	106-47-8	N.D.	0.002
4-Chloro-o-toluidine	95-69-2	N.D.	0.002
4,4'-Diaminodiphenylether	101-80-4	N.D.	0.002
4,4'-Methylenedianiline	101-77-9	N.D.	0.002
4,4-Methylenedi-o-toluidine	838-88-0	N.D.	0.002
2-Methoxy-5-methylaniline	120-71-8	N.D.	0.002
4-Methoxy-m- phenylenediamine	615-05-4	N.D.	0.002
o-Toluidine	95-53-4	N.D.	0.002
2,4-Toluenediamine	95-80-7	N.D.	0.002
3,3-Dimethylbenzidine	119-93-7	N.D.	0.002
2,4,5-Trimethylaniline	137-17-7	N.D.	0.002
Aniline	62-53-3	N.D.	0.002
2,4-Dimethylaniline	95-68-1	N.D.	0.002
2,6-Dimethylaniline	87-62-7	N.D.	0.002
p-Phenylenediamine	106-50-3	N.D.	0.002
2-naphthylamine	91-59-8	N.D.	0.002
o-aminoazotoluene	97-56-3	N.D.	0.002
5-nitro-o-toluidine	99-55-8	N.D.	0.002
3,3'-dichlorobenzidine	91-94-1	N.D.	0.002
3,3'-dimethoxybenzidine	119-90-4	N.D.	0.002
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	N.D.	0.002
4,4'-thiodianiline	139-65-1	N.D.	0.002
4-amino azobenzene	60-09-3	N.D.	0.002
Sum of PAA	--	N.D.	0.01
<b>Conclusion</b>		<b>Pass</b>	--

Note(s):

1. Test condition & simulant were specified by client.
2. mg/kg = million (s) per kilogram in food simulant.
3. N.D. = Not Detected (< Reporting limit)
4. Reporting limit = 0.002 mg/kg





## 5. Pentachlorophenol (PCP) content

Test method: With reference to §64 LFGB BVL B 82.02.8:2001, extraction with KOH and analysis by GC-MS

Test parameter	CAS No.	Result [mg/kg]	Client's Requirement [mg/kg]
		001	
Pentachlorophenol (PCP)	87-86-5	N.D.	--
Conclusion		Data	--

Note(s):

1. N.D. = Not Detected (< Reporting Limit)
2. Reporting limit = 0.05 mg/kg

## 6. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII, item no. 63 and its amendments - Total Lead Content

Test method: In-house test method, acid or microwave digestion and determination by ICP-OES

Test parameter	Result [mg/kg]	Requirement [mg/kg]
	003	
Total Lead (Pb)	N.D.	< 500
Conclusion	Pass	--

Note(s):

1. N.D. = Not Detected (< Reporting Limit)
2. Reporting limit = 10 mg/kg (0.001%)

## 7. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII, item no. 23 and its amendments - Total Cadmium Content

Test method: In-house test method, acid or microwave digestion and determination by ICP-OES

Test parameter	Result [mg/kg]	Requirement [mg/kg]
	003	
Total Cadmium (Cd)	N.D.	< 1,000 (Coating)
Conclusion	Pass	--

Note(s):

1. N.D. = Not Detected (< Reporting Limit)
2. Reporting limit = 10 mg/kg (0.001%)





**8. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII, entry 51 & 52 and its amendments**  
**- Phthalates Content**

Test method: With reference to ISO 14389:2022, determination by GC-MS

Test parameter(s)	CAS No.	Result [mg/kg]	Requirement [mg/kg]
		003	
Bis-(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	N.D.	< 1,000
Di-butyl Phthalate (DBP)	84-74-2	N.D.	< 1,000
Diisobutyl phthalate (DiBP)	84-69-5	N.D.	< 1,000
Benzyl Butyl Phthalate (BBP)	85-68-7	N.D.	< 1,000
Sum of (DEHP, DBP, DiBP, BBP)	--	N.D.	< 1,000
Di-n-octyl Phthalate (DNOP)	117-84-0	N.D.	--
Diisodecyl Phthalate (DiDP)	68515-49-1/ 26761-40-0	N.D.	--
Diisononylphthalate (DiNP)	68515-48-0/ 28553-12-0	N.D.	--
Sum of (DNOP, DiDP, DiNP)	--	N.D.	< 1,000
<b>Conclusion</b>		<b>Pass</b>	--

Note(s):

1. N.D = Not Detected (< Reporting limit)
2. Reporting limit = 50 mg/kg (0.005%)





## 9. AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: AfPS GS 2019:01 PAK and determination by GC-MS

Test parameter(s)	CAS No.	Unit	RL	Result	Specification Limit (#)
				003	
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	N.D.	< 0.2
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	N.D.	< 0.2
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	N.D.	< 0.2
Benzo[b]fluoranthene (BbF)	205-99-2	mg/kg	0.1	N.D.	< 0.2
Benzo[j]fluoranthene (BjF)	205-82-3	mg/kg	0.1	N.D.	< 0.2
Benzo[k]fluoranthene (BkF)	207-08-9	mg/kg	0.1	N.D.	< 0.2
Chrysene (CHR)	218-01-9	mg/kg	0.1	N.D.	< 0.2
Dibenzo[a,h]anthracene (DBA)	53-70-3	mg/kg	0.1	N.D.	< 0.2
Benzo[g,h,i]perylene (BPE)	191-24-2	mg/kg	0.1	N.D.	< 0.2
Indeno[1,2,3-cd]pyrene (IPY)	193-39-5	mg/kg	0.1	N.D.	< 0.2
Phenanthrene (PHE)	85-01-8	mg/kg	0.1	N.D.	--
Pyrene (PYR)	129-00-0	mg/kg	0.1	N.D.	--
Anthracene (ANT)	120-12-7	mg/kg	0.1	N.D.	--
Fluoranthene (FLT)	206-44-0	mg/kg	0.1	N.D.	--
Sum of 4 PAHs Phenanthrene, Pyrene, Anthracene, Fluoranthene	---	mg/kg	---	N.D.	< 1 Sum
Naphthalene (NAP)	91-20-3	mg/kg	0.1	0.66	< 1
Sum of 15 PAHs	-	mg/kg	-	0.66	< 1
<b>Conclusion</b>				<b>Pass</b>	--

Note(s):

1. N.D = Not Detected (< Reporting limit)
2. RL = Reporting Limit/ Method Detection Limit
3. (#) The Specification Limit was quoted according to Category 1. - AfPS (German commission for Product Safety) GS PAHs requirements as client's request.



**AfPS (German commission for Product Safety) GS PAHs requirements**

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use. - in toys according to Directive 2009/48/EC or - for the use by children <sup>a,b</sup> up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
<b>Sum of 15 PAHs</b>	< 1	< 5	< 10	< 20	< 50

Note(s):

- A "Child" is legally defined as a person before reaching the age of 14 years.
- Use by children includes both active and passive contact by children.
- Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)
- According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.



**PHOTO(S) OF SUBMITTED SAMPLE(S) FOR TESTING:**



Sample 1





**PHOTO(S) OF SAMPLES PROVIDED BY CLIENT FOR REFERENCE ONLY:**

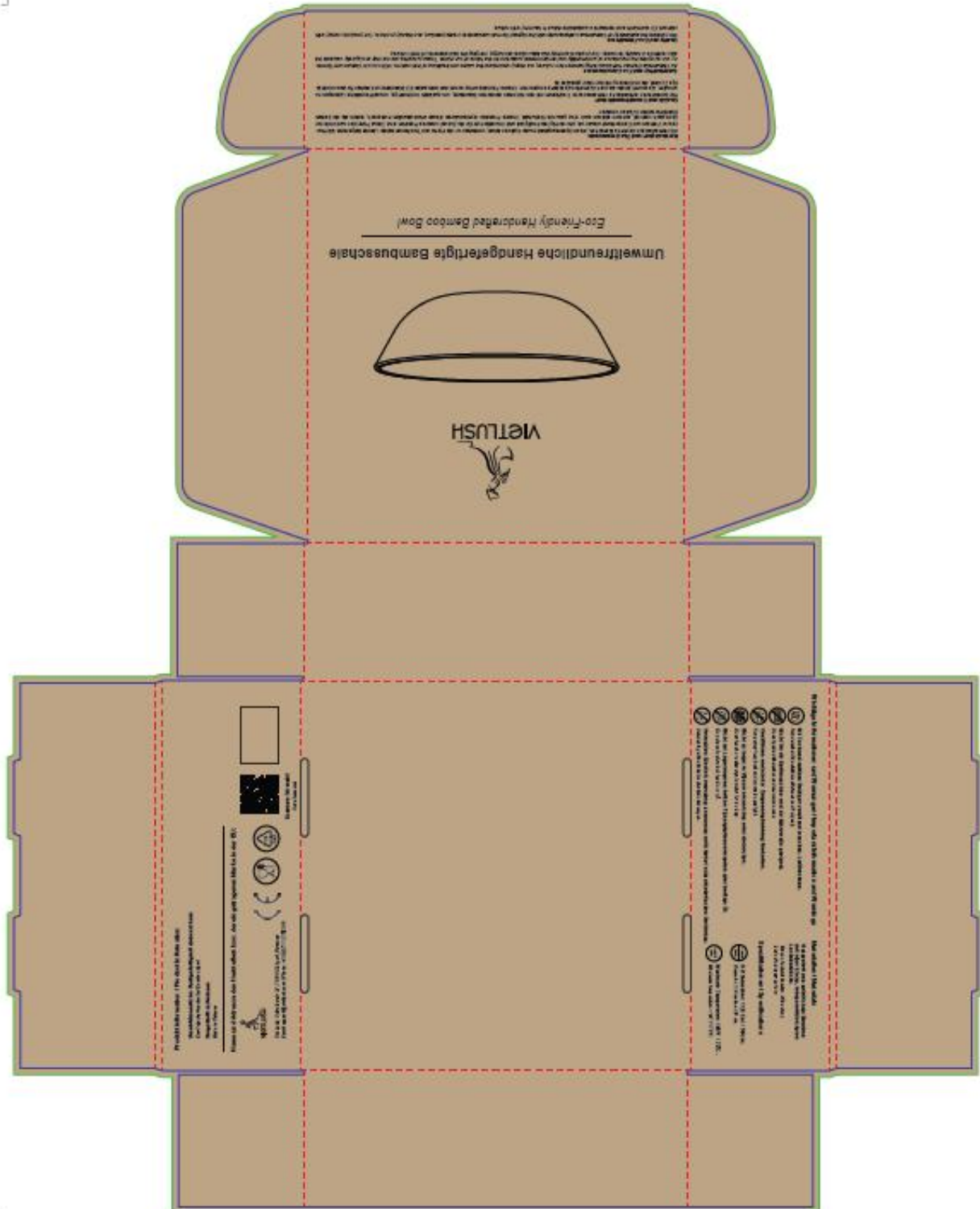




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Test Reference	Test Reference	Test Reference	Test Reference
Product description	Product description	Product description	Product description
Manufacturer description	Manufacturer description	Manufacturer description	Manufacturer description
Brand	Brand	Brand	Brand
Material	Material	Material	Material







**Customer inquiries, please contact:**

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A handwritten signature in blue ink, appearing to be "Phan Hoang Nhut".

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Phan Hoang Nhut  
Senior Executive - Customer Service  
Reviewer

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Tran Thi Lien  
Manager - Hardlines Laboratory  
Authorizer







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Effective 01 April 2024

