

Test Report No. 7191354391-CHM25-LS

Date: 09 May 2025

Email: Sihai.Li@tuv sud.com

Client's Ref:

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SUBJECT

Evaluation of "DoctorPly" sample.

CLIENT

DKGROUP PTE. LTD.
10 ADMIRALTY STREET
#02-51 NORTH LINK BUILDING
757695 SINGAPORE
Singapore

DESCRIPTION OF SAMPLE

One small sample and 2 panels labelled as follows were received on 10 Mar 2025:

Brand Name	DoctorPly
Product Name	Harmony Eco-Wood with Melamine Laminate

DATE OF TEST

19 Mar 2025 – 07 May 2025



Laboratory:
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METHOD OF TEST

The following emission tests were conducted according to ASTM D5116-17 – *Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials / Products*, as reference.

1. Emission Test

- 1) Total Volatile Organic Compounds (TVOC) Emission
- 2) Formaldehyde Emission

Emission Test Condition

- 1) Chamber Volume: about 1m³
- 2) Temperature: 23°C
- 3) Relative Humidity: 50%
- 4) Air Exchange Rate: n=1 (air change rate per hour in the chamber)
- 5) Chamber Loading Ratio: 0.4-1.0 m²/m³ (total exposed surface area of the test specimen divided by the net air volume of the emission test chamber)
- 6) Air Velocity: 0.1 m/s to 0.3 m/s (over the surface of the test specimen)

Remark: Loading Factor of the sample is 0.40 m²/m³

2. Analysis of Hazardous Substances

1. Heavy metals analysis of Antimony (Sb), Arsenic (As), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Mercury (Hg), Selenium (Se) and Tin (Sn)

The sample was digested by inorganic acid, followed by analysis using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES).

2. Analysis of Hexavalent Chromium (Cr⁶⁺)

The sample was analysed by UV-Vis spectrometer using 1,5-Diphenylcarbohydrazide as derivatizing agent.



RESULTS

Table 1. Total Volatile Organic Compounds (TVOC) Emission Test Result

Sample	Test Result (After 168 hours)	
DoctorPly	0.23 mg per m ² per hour	< 0.1 mg per m ³

Table 2. Formaldehyde Emission Test Result

Sample	Test Result (After 168 hours)	
DoctorPly	< 0.01 mg per m ² per hour	< 0.01 mg per m ³

Table 3. The elemental analytical results for the sample.

Test	Result
Antimony, Sb	Not Detected ^a
Arsenic, As	Not Detected ^a
Cadmium, Cd	Not Detected ^a
Chromium, Cr	Not Detected ^a
Copper, Cu	Not Detected ^a
Lead, Pb	Not Detected ^a
Mercury, Hg	Not Detected ^a
Selenium, Se	Not Detected ^a
Tin, Sn	Not Detected ^a
Hexavalent Chromium, Cr (VI)	Not Detected ^a


^aThe method detection limit was 50 mg/kg.

MS LOO SHIRLYN
CHEMIST

DR LI SIHAI
AVP / SENIOR CHEMIST
CHEMICAL & MATERIALS



APPENDIX – SAMPLE PHOTO

Sample	Sample Photo
DoctorPly	 A photograph showing a long, rectangular wooden sample with a light brown, vertical-grain finish. The sample is placed on a metal tray inside a testing chamber, which has a perforated metal floor and walls. The lighting is bright, highlighting the texture of the wood.



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09 MAY 2025



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Effective 27 March 2024

TEST REPORT

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Your Ref:-	-	Date: 06/03/2025
Our Ref:-	CHEM 25-00399	
Subject	SGBC requirement on sample submitted by DKGroup Pte Ltd on 21/01/2025 and test commenced on 21/01/2025.	
Tested For:	DOCTOR PLY 65 Ubi Road 1 #01-63 Oxley Bizhub Singapore 408729	
Sample Description:	Harmony Ply/Panel Board	

Clause	Test Parameter	Test Method	Unit	Result	Reporting Limit	SGBC Criteria	Justification
B2	Emission analysis (After 7 days)						
	Test Chamber Parameters Temperature: 23 ± 2 °C Relative Humidity: 50 ± 5% Chamber Air Exchange Rate: 1.0 Chamber Loading Factor: 0.4 Reference Room: as per EN 16516						
i)	TVOC Emission	ISO 16000-9: 2006 / ATD-GC/MS / ISO 16000-3	mg/m ³	0.05	0.05	<0.1	Pass
ii)	Formaldehyde Emission		mg/m ³	N.D.	0.005	<0.01	Pass

Notes :	N.D. - Not Detected (< Reporting Limit)
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Signed for and on behalf of STATS Asia Pacific Pte Ltd


LEI ZHI PEI
 DIRECTOR

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