

Report: ADT.21G019.IY

Issued: 23 July 2021

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Test Report:

EN 1650:2019

Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas – Test method and requirements (phase 2, step 1)

Identification of the test laboratory:

Abbott Analytical Ltd
Unit 2, Hickmans Road, Birkenhead, CH41 1JH, Great Britain

Identification of the client:

IPS Group A/S
Hejreskovvej 22A, DK-3490 Kvistgård, Denmark

Identification of the sample:

21G/019

Name of the product:

7100HA

Batch number/reference and
expiry date (if available):

N/A

Date of delivery:

05 July 2021

Storage conditions:

Room temperature in darkness

Product diluent recommended by
the manufacturer for use:

Not disclosed

Active substance(s) and their
concentrations (s) (optional):

Not disclosed

Appearance of the product:

Blue wipes from which was extracted a clear colourless liquid

Notes:

- 1) The test results in this report relate only to the sample(s) tested.
- 2) This test report may not be reproduced except in full, adapted, altered or used to create a derivative work, without written approval from Abbott Analytical Ltd.

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Test method and its validation:

Method: Dilution-neutralisation

Neutraliser: 100.0 g/l Polysorbate 80 + 30.0 g/l Lecithin +
30.0 g/l Tryptone Soya Broth + 5.0 g/l Sodium thiosulphate +
1.0 g/l L-histidine (Neutraliser B)

Neutraliser validation: Validated in accordance with EN 1650:2019 (5.5.2)

Experimental conditions:

Period of analysis: 21 July 2021 to 23 July 2021

Product test concentration(s): Neat liquid extracted from wipes

Diluent used for product test solution(s): Hard water

Contact time(s): 60 s ± 5 s

Test temperature(s): 20°C ± 1°C

Interfering substance: 0.3 g/l bovine albumin (clean conditions)

Temperature of incubation: 30°C ± 1°C

Identification of the fungal strain(s) used: *Candida albicans* (DSM 1386)

Deviations: None

Remarks:

- 1) All test conditions are as requested by the client, irrespective of whether these are in accordance with EN 1650:2019 (5.4.2) or EN 1650:2019 (5.5.1.1).
- 2) Products can only be tested at a concentration of 80% or less as some dilution is always produced by adding the test organisms and interfering substance.

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Requirements:

The product shall demonstrate at least a 4 decimal log (lg) reduction against every test organism.

Conclusion:

According to EN 1650:2019, the liquid extracted from this sample of 7100HA wipes possesses yeasticidal activity against the referenced strain of *Candida albicans*, when tested neat with a contact time of 60 seconds at 20°C under clean conditions.

Approved by:

Signed:



Name: Tony Watson

Position: General Manager

Date: 23 July 2021

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Results: EN 1650:2019

RST 005 (Issue 5)

Test organism:	<i>Candida albicans</i>	(DSM 1386)
Date of test:	21 July 2021	Test temperature: 20°C ± 1°C
Interfering substance:	0.3 g/l bovine albumin	
Dilution-neutralisation method:	Pour plate	Number of plates: 1 / ml
Neutraliser:	B	Incubation temperature: 30°C ± 1°C

Validation and controls:

Validation suspension (N_{V_0})			Experimental conditions control (A)			Neutraliser or filtration control (B)			Method validation (C) Product conc.: <i>Neat</i> *		
Vc1	88	$\bar{x} =$	Vc1	74	$\bar{x} =$	Vc1	64	$\bar{x} =$	Vc1	52	$\bar{x} =$
Vc2	90	89	Vc2	76	75	Vc2	56	60	Vc2	54	53
30 ≤ \bar{x} of N_{V_0} ≤ 160 ?			\bar{x} of A ≥ 0.5 x \bar{x} of N_{V_0} ?			\bar{x} of B ≥ 0.5 x \bar{x} of N_{V_0} ?			\bar{x} of C ≥ 0.5 x \bar{x} of N_{V_0} ?		
<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

Test suspension (N and N_0):

N	Vc1	Vc2	\bar{x} wm = 2.00 x 10 ⁷ ;	lg N = 7.30
10 ⁻⁵	192	184	$N_0 = N / 10$;	lg N_0 = 6.30
10 ⁻⁶	31	32	6.17 ≤ lg N_0 ≤ 6.70 ?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

Test:

Conc. of the product	Contact time	Vc1	Vc2	N_a ($\bar{x} \times 10$)	lg N_a	lg R (lg N_0 - lg N_a)
<i>Neat</i> *	60 s	0	0	<140	<2.15	>4.15

*Neat liquid extracted from wipes

Explanations:

V_c	count per ml (one plate or more)
\bar{x}	average of V_{c1} and V_{c2} (1 + 2 duplicate)
\bar{x}_{wm}	weighted mean of \bar{x}
N	number of cells per ml in the test suspension
N_o	number of cells in the test mixture at the beginning of the contact time ($N_o = N / 10$)
N_a	number of survivors per ml in the test mixture at the end of the contact time (before neutralisation or filtration)
R	reduction ($\lg R = \lg N_o - \lg N_a$)
N_v	number of cells per ml in the validation suspension
N_{v_o}	number of cells in the validation mixtures at the beginning of the contact time ($N_{v_o} = N_v / 10$)
A	number of survivors per ml in the experimental conditions control mixture
B	number of survivors per ml in the neutraliser or filtration control mixture
C	number of survivors per ml in the method validation mixture