

PROTOCOL: VAH ring trial 2021 – 02

TEST DESIGN:

Quantitative test method for the evaluation of yeasticidal activity on non-porous surfaces with mechanical action employing wipes under dirty conditions against *Candida albicans* according to the VAH method 2015, Chapter 14.2 or alternatively DIN EN 16615:2015.

1. **Methods:** Each laboratory will perform the test according to VAH method 2015, Chapter 14.2 or alternatively according DIN EN 16615 (2015).

Modification of VAH method 14.2 / EN16615:2015:

The following change shall be take into account:

- **Nw (water control)** is on average > 10 cfu/25 cm² on test field 1 – 4, hence, considering all 4 fields, the initially contaminated field and the three initially uncontaminated fields to determine the validity of water control. (see Annex A)
- **Pre-cleaning of the test-surfaces (see Annex B)**

2. **Test organism:**

	Test organism		Inc. temp. / time
Obligatory	<i>Candida albicans</i>	ATCC 10231	30 °C / 48 h

3. **Interfering substance:** Final concentration of bovine albumin fraction V (BSA) and sheep erythrocytes in the test procedure shall be 3 g/l BSA + 3 ml/l sheep erythrocytes – dirty condition
4. **Product:** Product A and Product B
Each participating laboratory will receive test product A and B and should perform the tests with both products. The minimum safety data sheets for the products are provided in **Annex C**.
The test products should be stored at 20 °C (room temperature) protected from light.
5. **Test-surfaces:** FOREX
Each participating laboratory will receive the required test-surfaces. A detailed description of the test procedure and the required number of test-surfaces is given in **Annex D**.
6. **Neutralizer:**
TSHC: 30 g/l polysorbate 80, 30 g/l saponin, 1 g/l L-histidine, 1 g/l cysteine in diluent

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Adjusted to pH $7,0 \pm 0,2$ with sodium hydroxide (NaOH) 1 mol/l or with hydrochloric acid (HCl) 1 mol/l.

7. **Diluent:** Tryptone sodium chloride
8. **Culture media:** Malt extraxt agar (MEA)
9. **Concentration-Time-Relation:**

Product	Method	Exp. time	Concentration	Runs*
Product A	VAH method 2015, Chapter 14.2 <u>or alternatively</u> EN 16615:2015	15 min	2%	3 x
			Water control	
Product B	VAH method 2015, Chapter 14.2 <u>or alternatively</u> EN 16615:2015	30 min	0,5%	3 x
			Water control	

* three independent repetitions

Prepare the test solution strictly according to the supplied "Guide for preparation of test solution" without variations (**see Annex C**).

10. **Number of tests:** The participants are requested to perform each test three times (independent repetitions). The results from each test and additional information (yellow fields) should be recorded in the provided input sheet. The log reduction "R=X" should be calculated and noted by each lab (no automatic calculation deposited).
11. **Time frame:** The ring trial should begin on November 8th, 2021 and should be finished latest on January 7th, 2022.
12. **Results:** The results should be sent to vah-ringtrial@ukbonn.de in electronic format before January 11th, 2022.
13. **Evaluation and evaluation of performance:** The evaluation of the ring trial will be carried out according to DIN EN ISO 13828 (Q/Hampel) using PROLab. The aim is to assess the laboratory performance by applying z(u)-scores with a tolerance limit of $|z(u)| \leq 2.0$. As a consequence of the difficulties which are inherent in microbiological procedures and different product characteristics we reserve the right to modify the microbiological evaluation and to refrain from the evaluation of the performance of laboratories, respectively. In any case the interlaboratory comparison enables the identification of potential interlaboratory differences and has the aim to improve and support consistent methodical procedures.

Please consider the following important information:

Participants have failed (“participation not successful”) if they:

- submit values, that are not within the required tolerance range
- submit values / cfu counts, that are indicated with “<“ or “>”
- miss to submit required values (reduction, pH etc.)
and/or
- do not submit values to the VAH e.V. within the specified time limit

14. **Contact:** For any questions please contact Dr. Stefanie Gemein (+49 228 / 287 14022) vah-ringtrial@ukbonn.de.

15. **Costs:** A participation fee of 200 € will be charged in order to cover part of our expenses. An invoice will be sent by the VAH office.

16. **Additional information:** A summary of results will be provided to participating laboratories and VAH disinfectant commission.

Time frame in overview

VAH ring trial 2021 – 02

Registration deadline	22th October 2021
Shipping of products and test-surfaces	2st November 2021
Ring trial (investigations & evaluation)	8th November 2021 – 7th January 2022
Transmitting of results	11th January 2022
Inquiries or comments	vah-ringtrial@ukbonn.de