

**THOR**

To examine the fungal wash properties  
of Bactdet D and RLT Bactdet

Technical Service Report No B/01/0917.

*Biocides*



TSR B/01/0917

**Commercial-In-confidence**

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of Bactdet D and RLT Bactdet**

**Technical Service Report No B/01/0917**

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Laboratory Manager

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## 1. Summary

Fungal wash solutions were examined for their ability to kill off fungal growth on panels.

The data shows that 5% **ACTICIDE® 50X** Bactdet D and RTL Bactdet worked well to kill fungal growth already present on panels.

Note: **ACTICIDE® 50X** is an HSE approved raw material for formulating registered surface biocides.

## 2. Objective

To examine the fungal wash properties of Bactdet D and RTL Bactdet.

## 3. Method

### 3.1 Samples

Four samples were received for testing on 10.09.01 labelled as follows:-

- Bactdet D
- Bactdet D without biocide
- RTL Bactdet
- RTL Bactdet without biocide

### 3.2 Procedures

#### 3.2.1 Thor Test Method 822 - Fungal Wash Test

6 x 9 cm plasterboard panels were painted with two coats of paint free from dry film biocide. When dry the panels were inoculated with a mixed spore suspension of fungi (including yeasts) known to grow on surface coatings and hung in a high humidity cabinet for four weeks.

After achieving 100% growth duplicate panels were liberally brushed with the test solution/s and a control with water. Once dry, the panels were returned to the humidity cabinet and incubated for a further four weeks prior to assessment.

Fungal growth on all panels was rated according to British Standard BS3900 Part G6.

#### 4. Results

Results are detailed in the Tables below and are described in the Summary.

**Table 1 Fungal Wash Test**

Sample	Growth Rating/Intensity	
	Replicate 1	Replicate 2
Bactdet D	(0) 0	(0) 0
Bactdet D without biocide	(50+) 4	(40+) 4
RLT Bactdet	(0) 0	(0) 0
RLT Bactdet without biocide	(80+) 5	(70+) 4
Control - Water	(100++) 5	(100++) 5
5% ACTICIDE® 50X	(0) 0	(0) 0

**Growth Ratings:**

- |                              |                                |
|------------------------------|--------------------------------|
| 0 = No growth                | 3 = 11-30% coverage of growth  |
| 1 = Trace growth             | 4 = 31-70% coverage of growth  |
| 2 = 1-10% coverage of growth | 5 = 71-100% coverage of growth |

**Intensity Ratings:**

+ = light, ++ = moderate, +++ = dense

( ) = % coverage + assessment of intensity

**5. Report Review**

The work detailed in this report has been carried out according to the Thor Specialities (UK) Limited Standard Methods of Test. All results have been checked by the responsible person and reviewed by the Laboratory Manager.

Signed 

Beverley J Whitfield BSc (Hons)  
Microbiologist

Date: 12/02/02Reviewed 

Pamela Pratt  
Laboratory Manager

Date: 12/02/02

PP/CS 17.01.02

Please note that, unless otherwise stated, the conclusions and any recommendations either made or implied, are based on information drawn from examination of the samples identified in this report only; since they may be influenced by, for example, infection level variations in raw materials, any stored component solutions and manufacturing equipment, it is recommended that some appropriate monitoring of microbiological properties is carried out.