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Title: **Foam Wound Dressing Testing - Absorbency**

Date: **30 October 2006**

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**Princess of Wales**

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subject: **Foam Wound Dressing Testing - Absorbency**

**S . M . T . L .**

date: **30 October 2006**

from: **Paul Fram  
Princess of Wales  
Tel: +44-1656-752820**

**Report No: 06/2283/3**

*Test Report*

06/2283/3

**1. Name & Address of Client/Requesting Authority.**

Ed Walton  
Smith & Nephew  
Healthcare Ltd.  
Healthcare House  
Goulton Street  
Hull, HU3 4DJ  
England, UK

Email:ed.walton@smith-nephew.com

**2. Introduction**

The SMTL were requested by the client to perform comparative testing on Smith & Nephew New Allewyn and Competitor A Foam Island Dressings.

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### 3. Test Product(s)/Sample(s)

TABLE 1. Test Product(s)/Sample(s) tested by SMTL.

Manufacturer	Item	Batch/Lot No	Quantity	Date Received
Smith & Nephew	New Allevyn Adhesive 10x10cm foam dressing	0637/ 66000599	55	04/10/2006
Competitor A	Product A 10x10cm foam island dressing	xxxxx/ xxxxxxxx	50	04/10/2006
Competitor A	Product A 10x10cm foam island dressing	xxxxx/ xxxxxxxx	5	04/10/2006

**NOTE: The test results in this report relate only to the test sample(s) analysed.**

#### 3.1 Departures/Abnormalities of Sample Condition

None

### 4. Date of Testing

October 2006

### 5. Testing Details

#### 5.1 Foam Absorbency Testing to BP Requirements

The absorbency of the dressings is determined using SMTL test method TM-366<sup>(1)</sup>

The weight of ten intact samples is determined prior to testing, and the dressings are then immersed in de-ionised water for 30 minutes before being drained on a draining board inclined at 45°g. The weight after draining is determined, and the individual increase in weight per sample is calculated. The increase in weight shall be greater or equal to 7.5 times the dry weight.

#### 5.2 List of SMTL Test Methods Used.

— TM-366 - Foam Absorbency Testing to BP Requirements

#### 5.3 Standards relevant to the test method.

— *British Pharmacopoeia 1993 Volume II, Polyurethane foam dressings*

#### 5.4 Deviations/exclusions from, and additions to standard methods.

None

#### 5.5 Sampling Details

All samples were selected and supplied by the client.

#### 5.6 Sample Preparation

As stated in the SMTL test method.

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## 6. Results

### 6.1 Absorbency

The results from the absorbency determination are summarised in Tables 2 and 3 below.

**TABLE 2.** Absorbency of Allewyn dressings

Sample No.	Sample weight (g)	Final Weight (g)	Weight increase Factor	Complies/ Does not comply †
1	1.37	13.93	9.17	Complies
2	1.43	15.89	10.11	Complies
3	1.40	16.16	10.54	Complies
4	1.43	15.94	10.15	Complies
5	1.41	15.19	9.77	Complies
6	1.46	15.05	9.31	Complies
7	1.39	15.59	10.22	Complies
8	1.45	16.16	10.14	Complies
9	1.40	15.26	9.90	Complies
10	1.39	15.60	10.22	Complies

**Note:**

† Weight increase factor shall be greater or equal to 7.5 times the dry weight.

**TABLE 3.** Absorbency of Product A dressings

Sample No.	Sample weight (g)	Final Weight (g)	Weight increase Factor	Complies/ Does not comply †
1	1.13	12.39	9.96	Complies
2	1.13	12.63	10.18	Complies
3	1.19	11.12	8.34	Complies
4	1.14	11.52	9.11	Complies
5	1.11	11.99	9.80	Complies
6	1.17	13.11	10.21	Complies
7	1.19	11.78	8.90	Complies
8	1.18	12.17	9.31	Complies
9	1.11	12.06	9.86	Complies
10	1.12	12.35	10.03	Complies

**Note:**

† Weight increase factor shall be greater or equal to 7.5 times the dry weight.



Authorised by: Peter Phillips  
Acting Director, SMTL  
January 2007

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*References*

1. Surgical Materials Testing Lab., "Foam Absorbency Testing to BP Requirements," TM-366 Q.

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