

Title: BODY TALCUM POWDERS - Petrographic Examination

Requested by: J. P. Leineweber

Reason for Request

To determine mineral content, and particularly to determine whether components of a fibrous nature may be present.

Samples

Eleven body talcum powders, as follows:

1. Johnson's Baby Powder, Johnson & Johnson.
2. Tweed Body Powder, Lenthéric.
3. Muguet des bois Talcum Powder, Coty.
4. Pond's Dream Flower Body Powder, Chasebrough-Pond's, Inc.
5. Shower to Shower Body Powder, Johnson & Johnson.
6. Early American Old Spice Talcum Powder.
7. Heaven Sent Bath Powder, Helena Rubinstein.
8. Evening in Paris Talc, Bourjois.
9. Mennen Bath Talc, The Mennen Company.
10. Cashmere Bouquet Body Talc, Colgate-Palmolive Company.
11. Friendship Garden Body Talc, Shulton.

Methods of Study

The samples were examined petrographically and the composition noted.

Photomicrographs were taken to show the shape characteristics of the particles. Iso-butanol was chosen as the immersion medium because of its low viscosity, which permitted the talc flakes to lie flat. Copies of the photomicrographs at a total magnification of 200X are attached to this report (Figures 1 - 11, Appendix).

Two of the samples, which had been found to contain tremolite, were examined via the electron microscope. The oils were extracted from these samples with ethyl alcohol, and the inorganic residues were then suspended in water. Dilute droplets of the water suspensions were dried on carbon coated electron grids, in an effort to secure any fines that might be present. These grids were then scanned under the electron microscope at the same magnification that has been used to detect fiber in other samples, and micrographs were taken.

Results

Mineral Content

The following samples consist essentially of talc, plus about 1 per cent magnesite:

Neobond 3735, pp. 98, 99

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Johnson's Baby Powder, Muguet Talcum Powder, Shower to Shower Body Powder, Heaven Sent Bath Powder, Evening in Paris Talc.

The Mennen Bath Talc is similar to the above, except that it contains about 5 per cent sassolite ($B_2O_3 \cdot 3H_2O$).

The following samples are chiefly talc, plus a small amount of tremolite (about 5 per cent) and about 1 per cent dolomite:

Tweed Body Powder, Pond's Dream Flower Body Powder.

The remaining samples (Early American Old Spice Talcum Powder, Cashmere Bouquet Body Talc, and Friendship Garden Body Talc) are essentially talc, plus a trace of tremolite, and a trace of dolomite.

Photomicrographs

The photomicrographs (Figures 1 - 11, Appendix) show the plates, scales and blade-shaped particles typical of talc, plus occasional splinters of tremolite in a few of the samples. Carbonate particles, because of their great difference in refractive index as compared with the immersion medium, show heavy black edges.

Electron Microscopy

Residues of Tweed Body Powder, and Pond's Dream Flower Body Talc (from which the oils had been extracted), were examined via the electron microscope. The coarse particles were settled out, and dilute droplets of the supernatants were dried on carbon-coated grids. These preparations showed virtually no fines, and also showed nothing of a fibrous nature.

Reported by

D. A. Bailey
D. A. Bailey

Basic Chemistry Research Section

mac

cc: F. L. Funderack (2)
S. Speil
E. M. Fenner
J. P. Leineweber 3-13-58
D. A. Bailey
Library (2)

AD 15016 0023

APPENDIX

PM CONFIDENTIAL. Not for general distribution or reproduction.

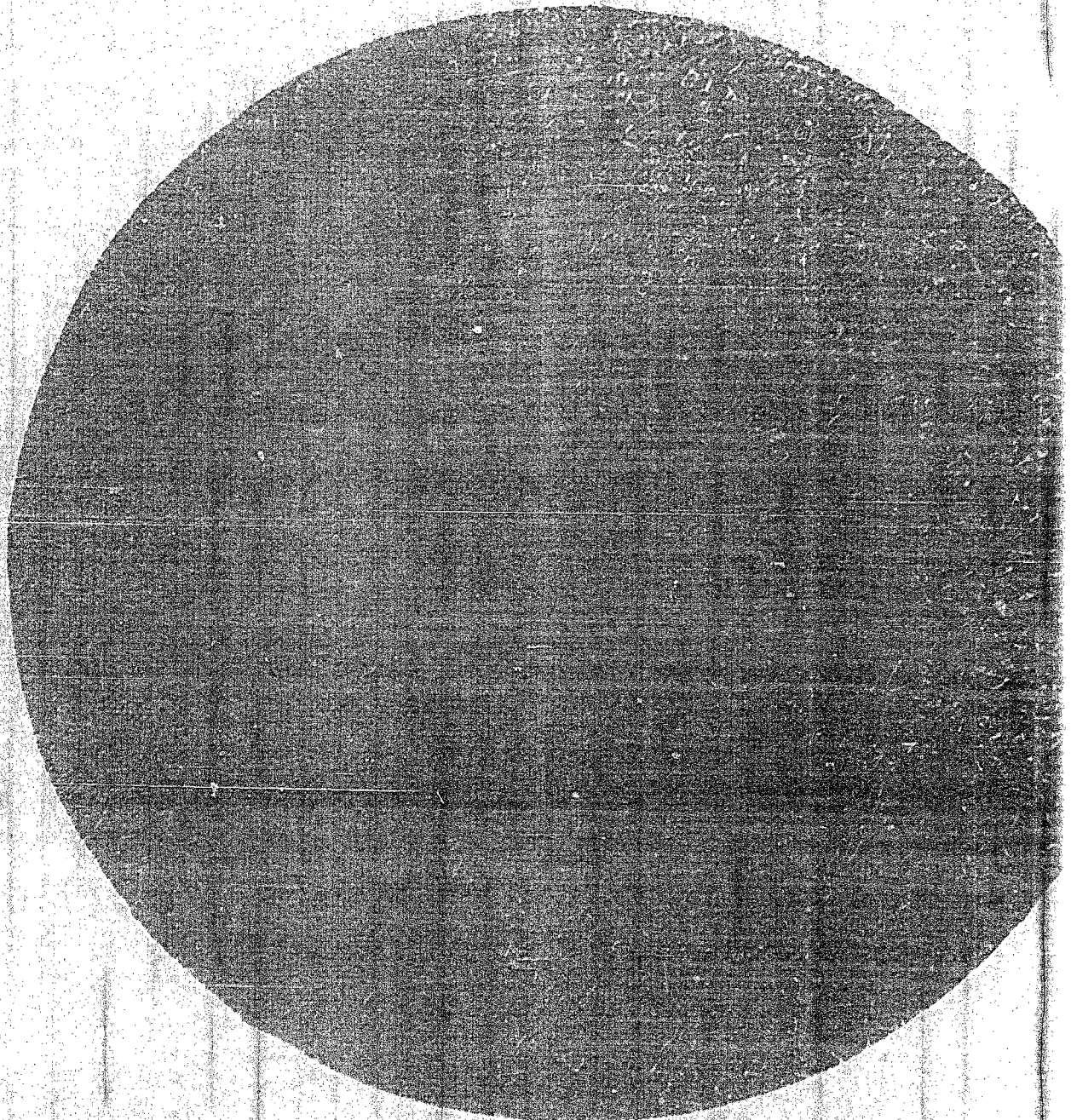


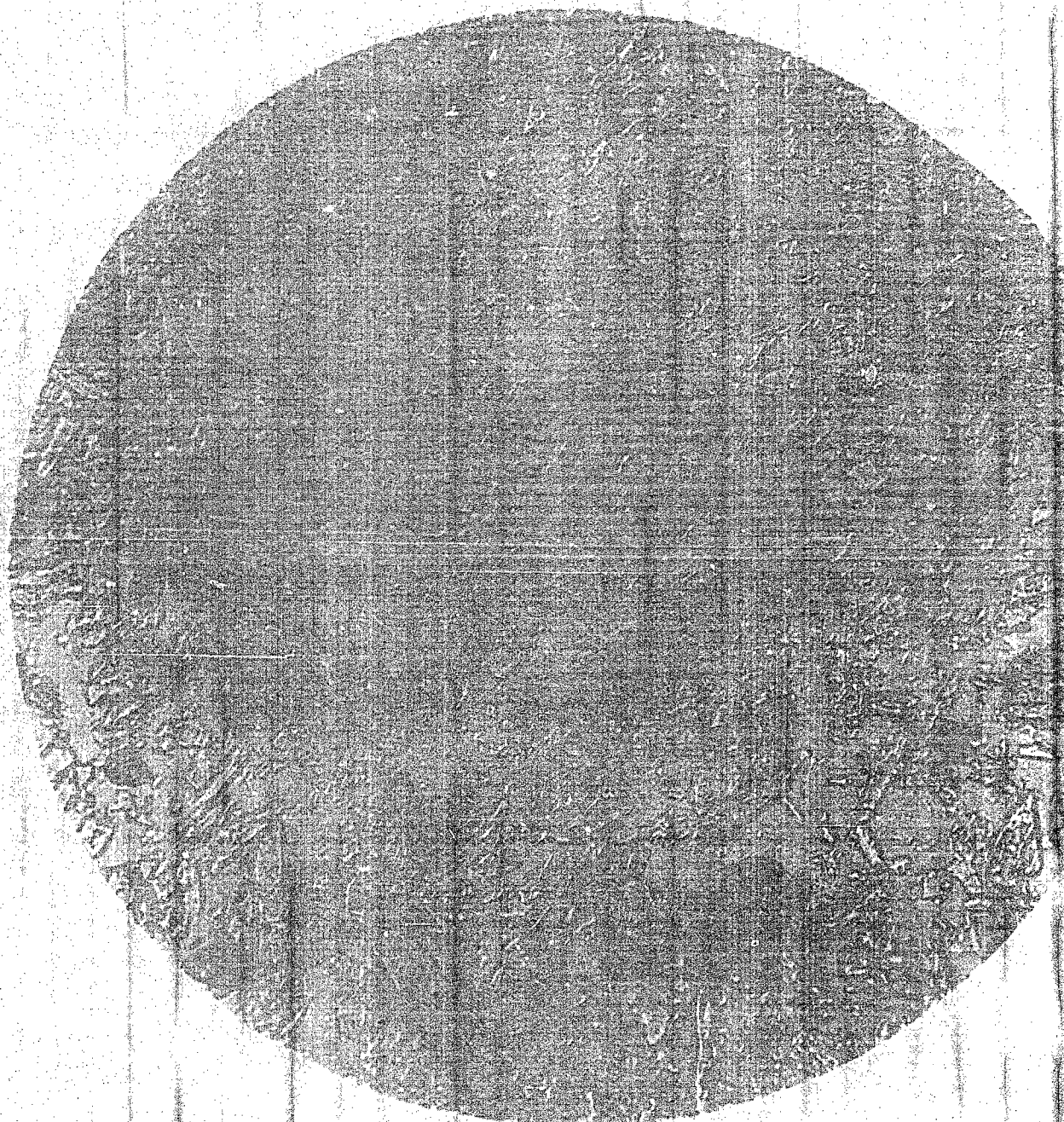
Figure 1. Johnson's Baby Powder.
Magnification 200X

Photomicrograph E-3776

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1M CONFIDENTIAL. Not for general distribution or reproduction.



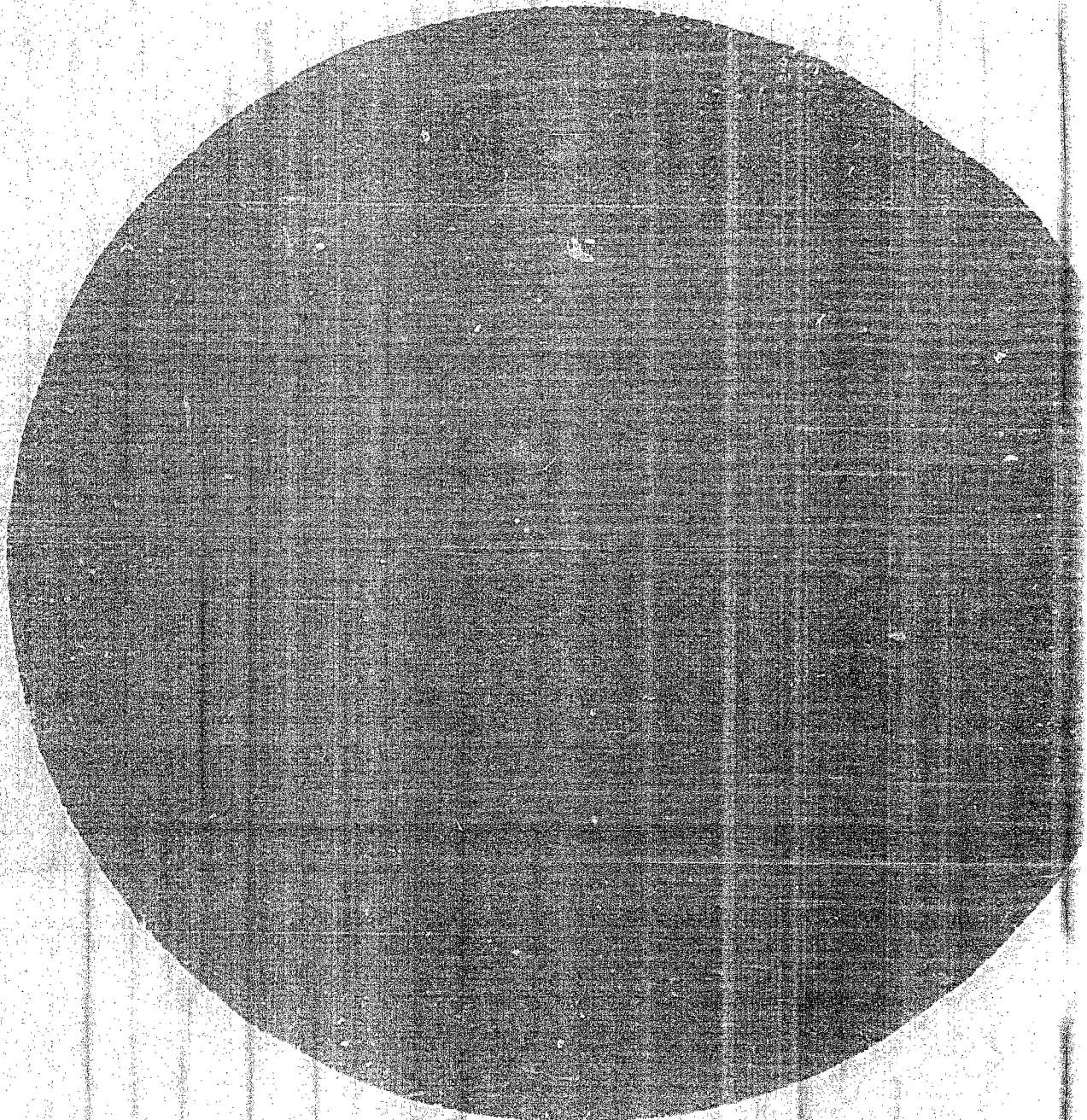
100μ

Figure 2. Tweed Body Powder, Lanthéris.
Magnification 200X

Photomicrograph E-3777A

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100 μ

Figure 3. Muguet Talc, Coty.
Magnification 200X

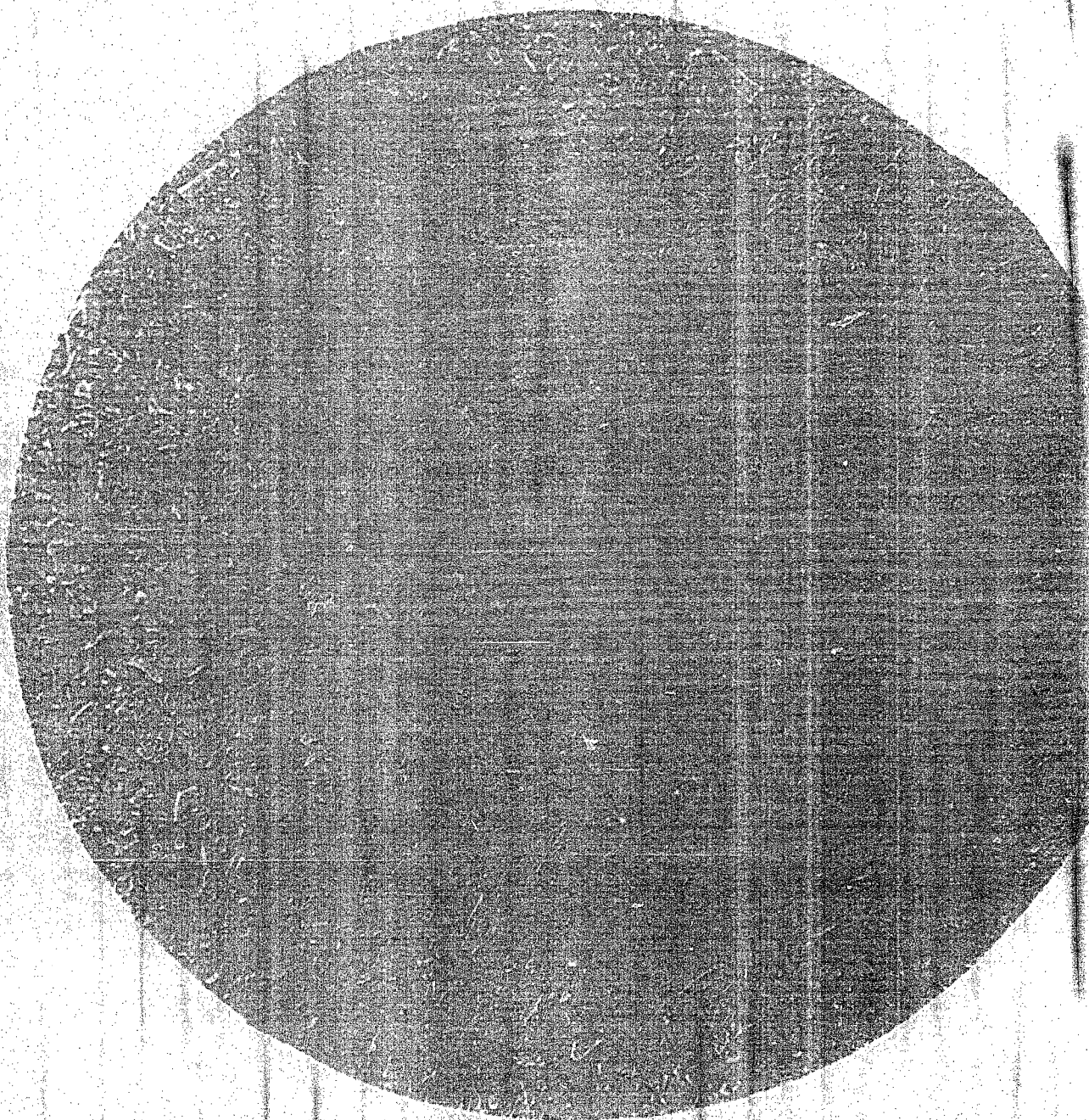
Photomicrograph E-3778

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100 μ

Figure 4. Bond's Dream Flower Body Talc.
Magnification 200X

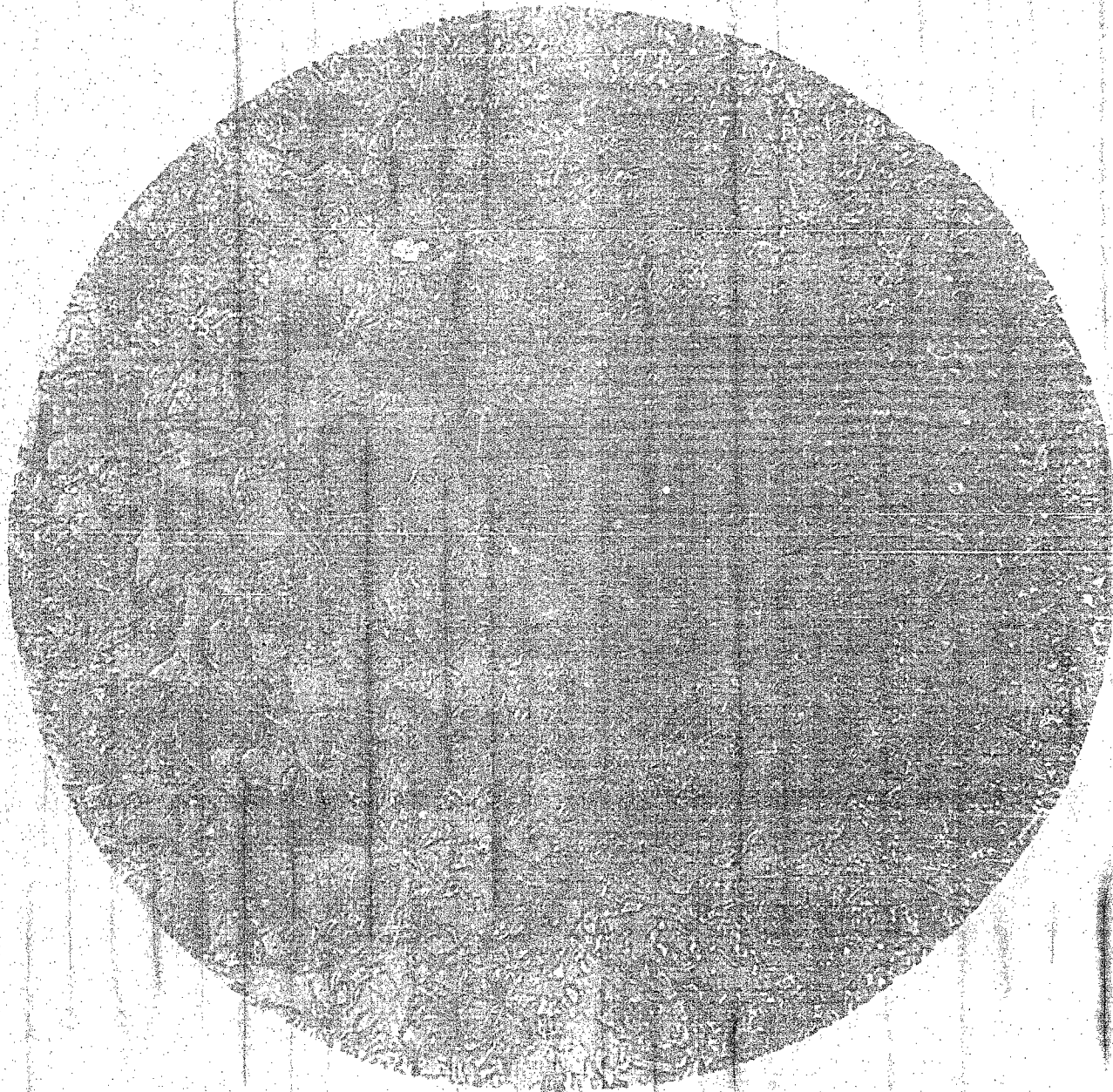
Photomicrograph E-3779

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100 μ

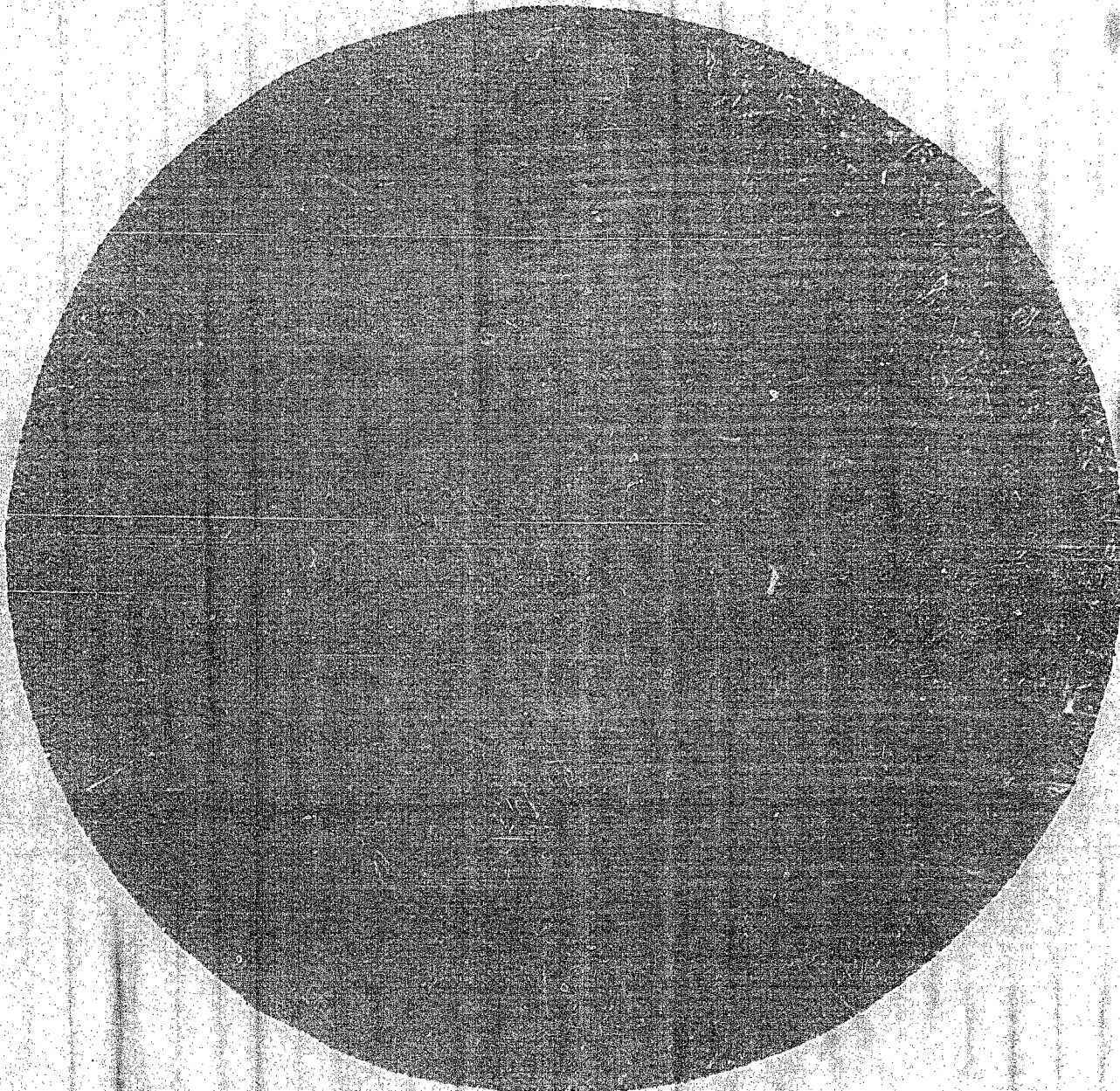
Figure 5. Shower to Shower Body Powder, Johnson & Johnson.
Magnification 200X

Photomicrograph E-3780

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100 μ

Figure 6. Early American Old Spice Talcum Powder.
Magnification 200X

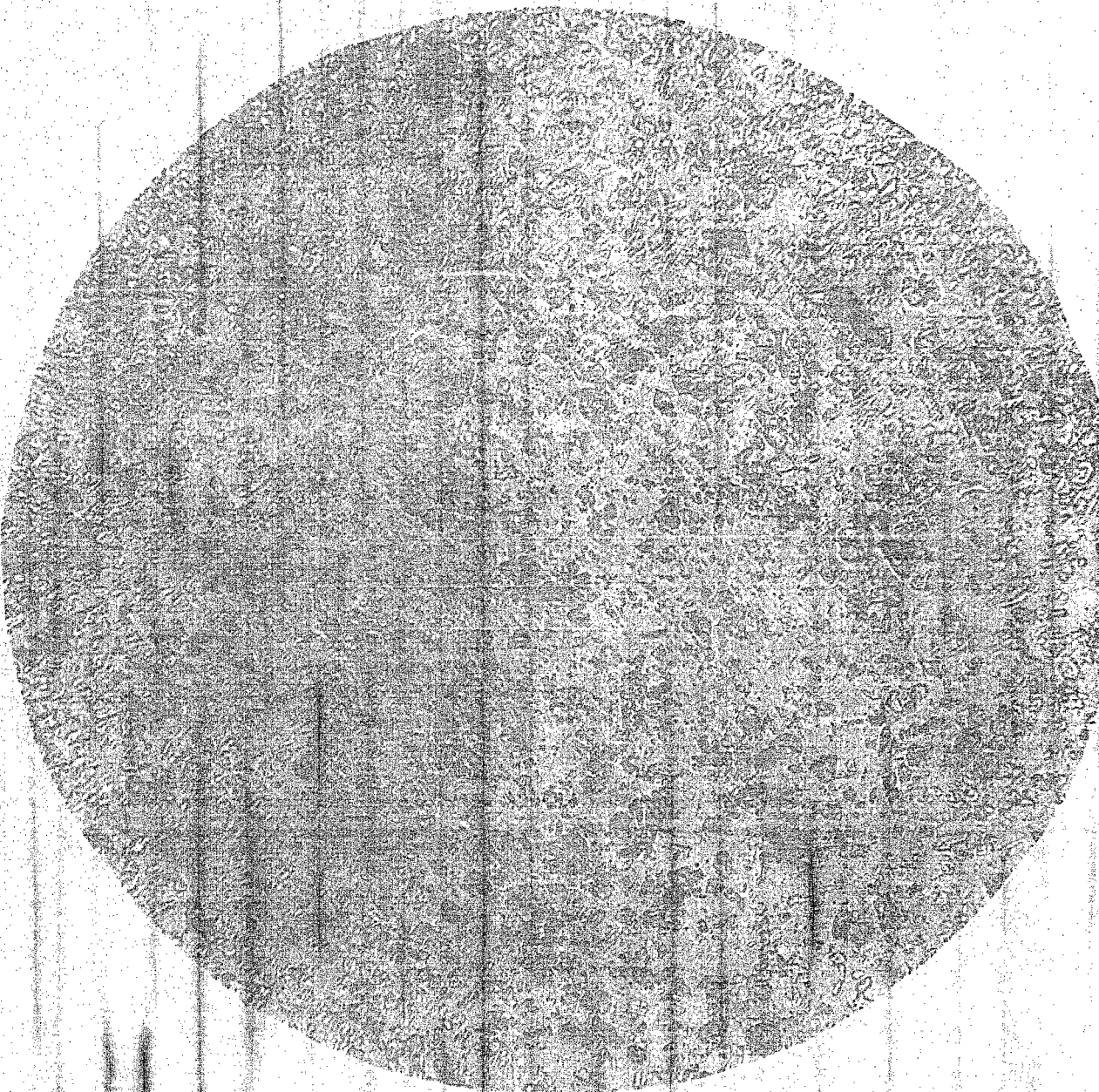
Photomicrograph E-3781

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100 μ

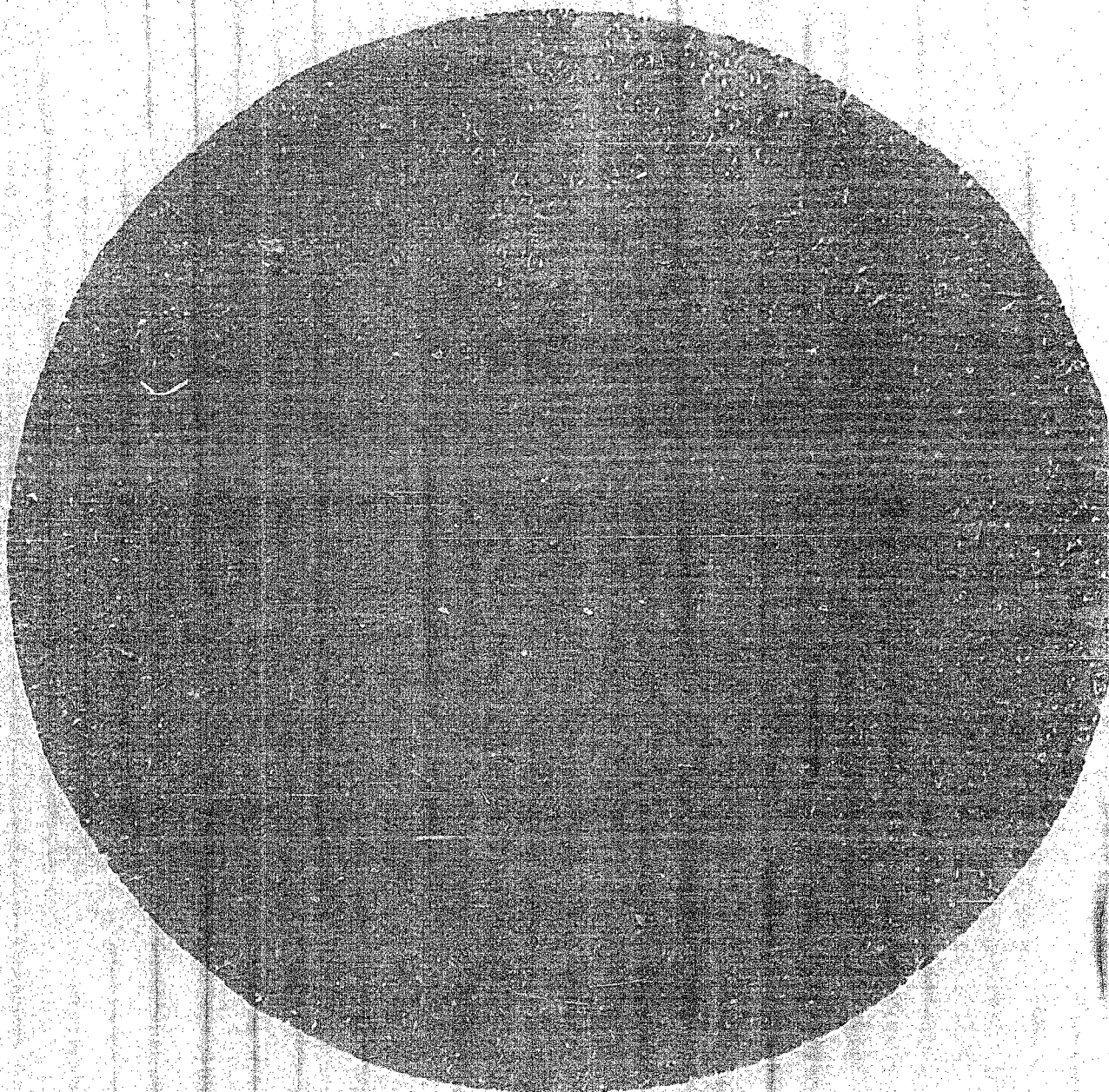
Figure 7. Heaven Sent Bath Powder, Helena Rubenstein.
Magnification 200X

Photomicrograph E-3782

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100 μ

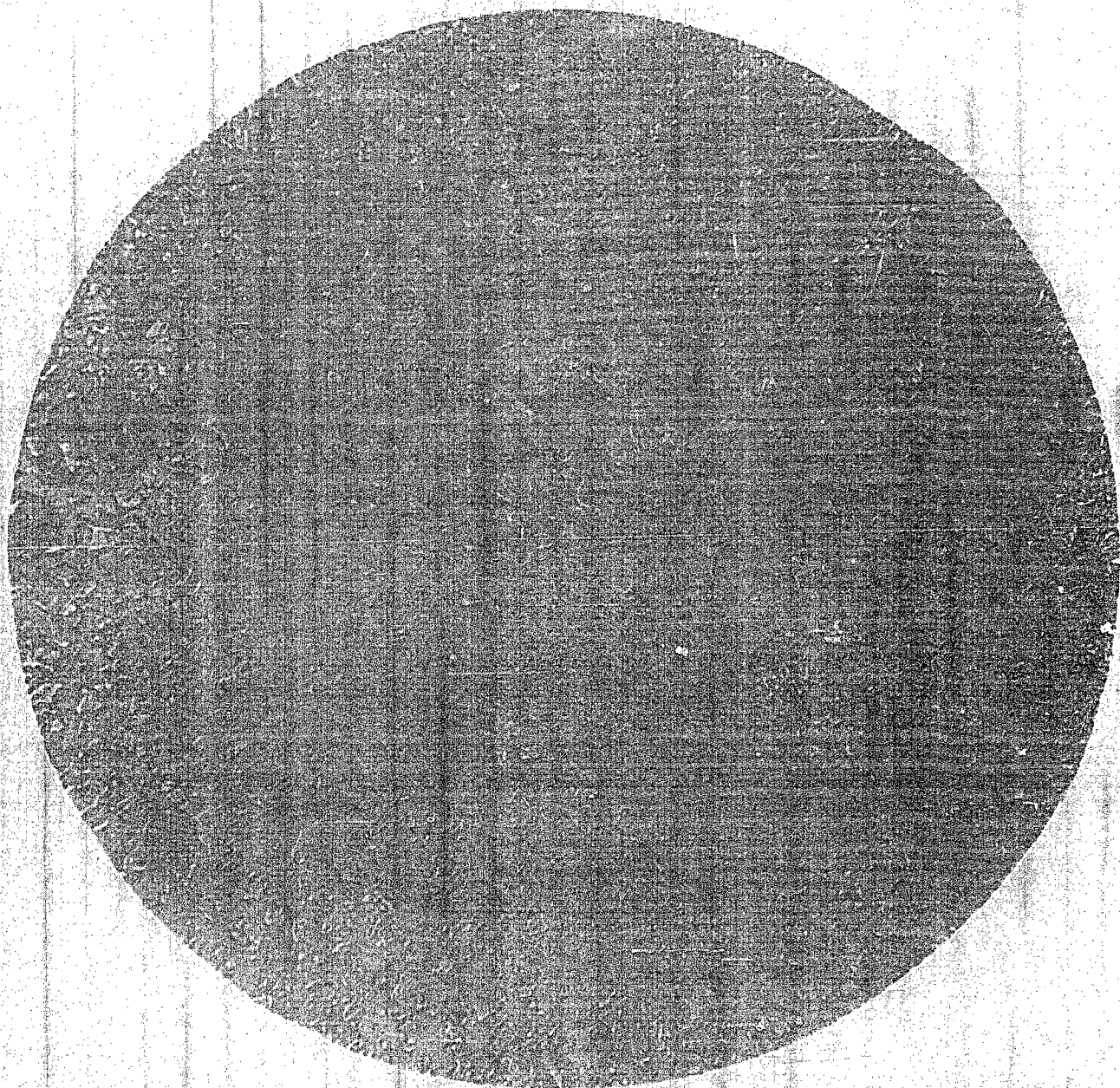
Figure 8. Evening in Paris Tale, Bourlois.
Magnification 200X

Photomicrograph E-3783

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AD 150

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100 μ

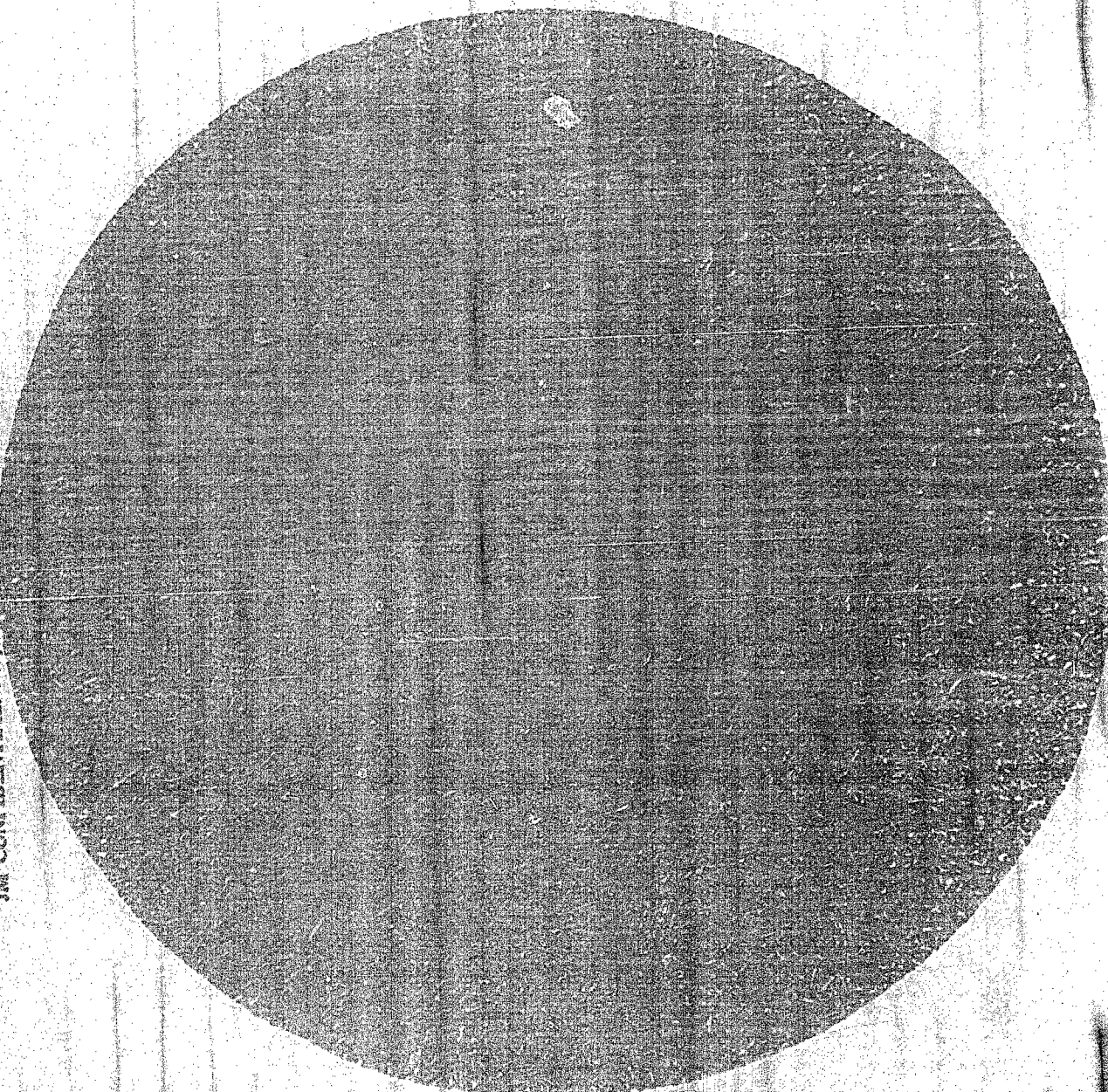
Figure 9. Mennen Bath Talc, The Mennen Company
Magnification 200X Photomicrograph E-3784

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100μ

Figure 10. Cashmere Bouquet Body Talc, Colgate-Palmolive
Magnification 200X Photomicrograph E-3785

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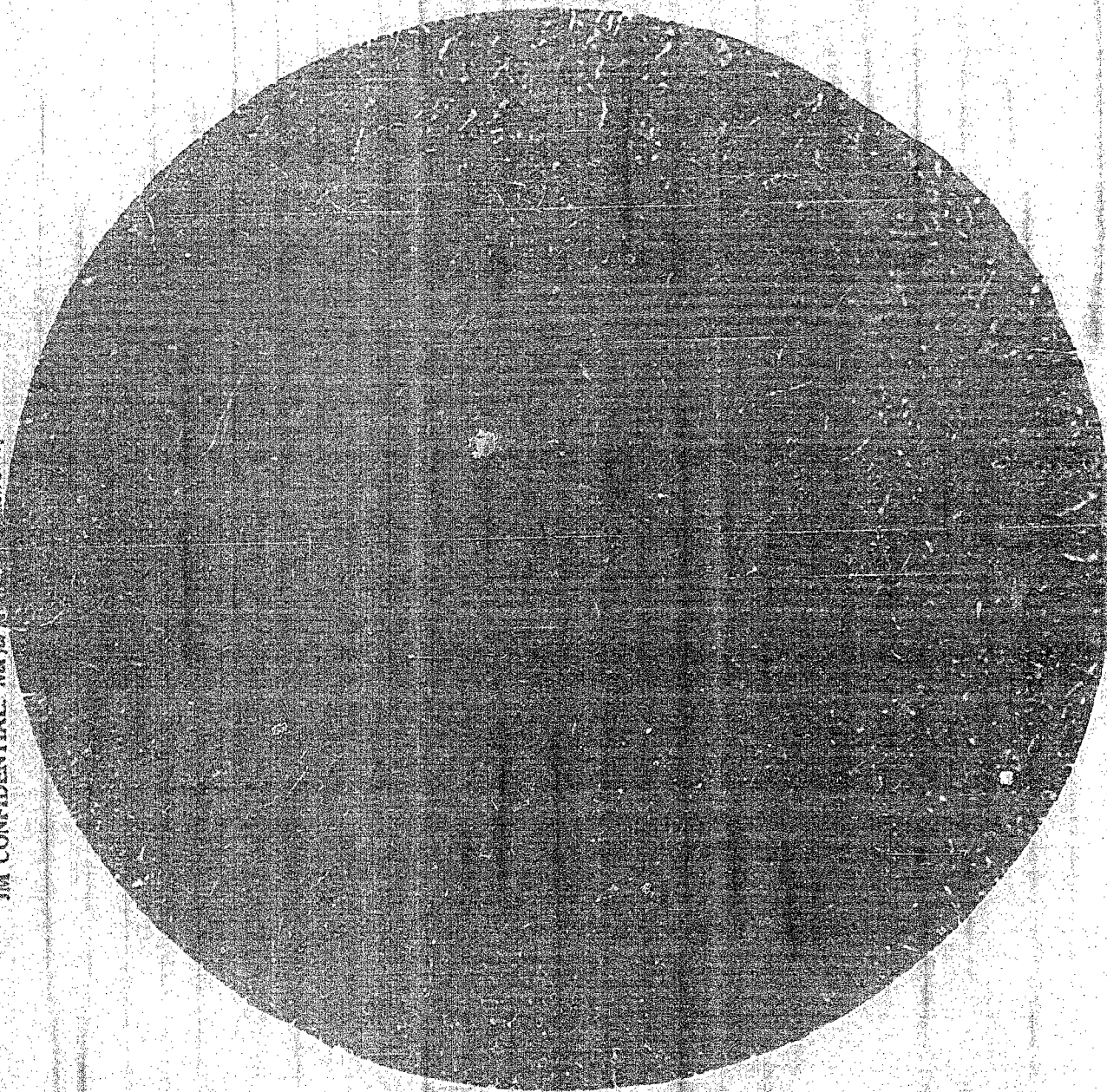


Figure 11. Friendship Garden Body Talc, Shulton
Magnification 200X

Photomicrograph S-3786

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AD 150

AFFIDAVIT

STATE OF COLORADO)
) ss.
COUNTY OF ADAMS)

I, Margaret J. Baumgardner, being of full age and first duly sworn do hereby state:

1. I am not a party to this action. I have personal knowledge of the facts set forth in this affidavit, and if called as a witness, I could and would competently testify as to the truth of the matters set forth herein.

2. I am the Research Coordinator for the Claims Resolution Management Corporation ("CRMC"), a wholly owned subsidiary of the Manville Personal Injury Settlement Trust ("Trust"). The CRMC was created in December 1998 and is staffed by former Trust employees. On January 1, 1999, CRMC began providing claims resolution facility services to the Trust.

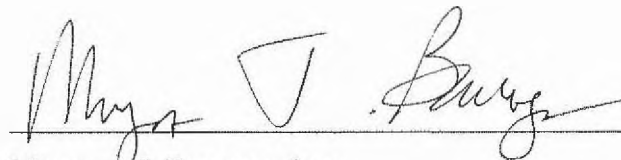
3. In this position, I manage the Asbestos Claims Research Facility ("Facility"), a document and records repository located at 3390 Peoria Street, Suite 304, Aurora, Colorado. The Facility contains the business records including but not limited to correspondence, memoranda, reports, records and data compilations ("record") of Manville Corporation or related entities ("Manville"), generally, as well as Manville records relevant to litigation of asbestos liability. The Trust has managed and operated the Facility from November 28, 1988, the date on which the Manville bankruptcy plan was consummated.

4. My experience and familiarity with the documents at the Facility began in 1983 while working for Manville. In my work as a paralegal for Manville, I assisted in locating, indexing and packing many of the records which became the foundation documents for the Facility. I continued to work for Manville until September 1987. From March 1988 to September 1988, I was hired to supervise and assist in the indexing of the first 20,000 boxes which were turned over to the Trust in November 1988. From September 1988 to January 1989, I assisted in the privilege review of documents to be given to the Trust. From November 1988 to April 1994, I worked for Freeborn & Peters and was put in charge of the Facility, managing all productions and "new" acquisitions. In September 1995, I was hired by the Trust to manage the Facility. In December 1998, I was hired by

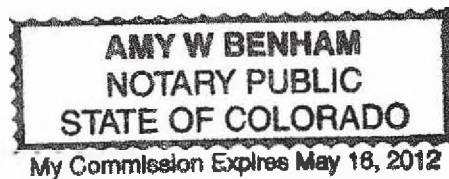
the CRMC to manage the Facility for the Trust. Accordingly, I am personally familiar with many of the records stored at the Facility, as well as how the records have been gathered.

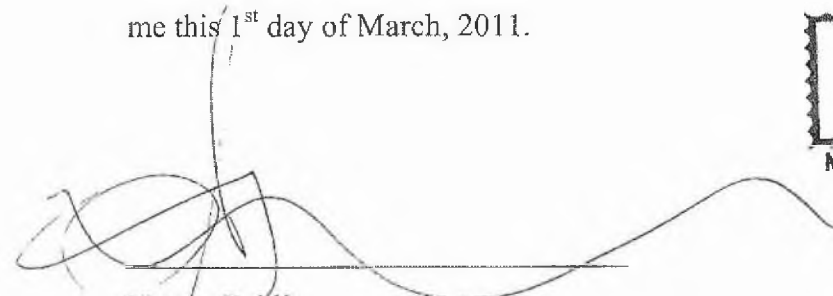
5. To the best of my knowledge, information and belief, I certify that these records were made at or near the time by, or from information transmitted by, a person with knowledge, were kept in the course of the regularly conducted business activity of Manville, and it was the regular practice and the business activity of Manville to make the records.

6. Documents from this Facility were copied for the Ruckdeschel Law Firm. The copies have come from microfilm at the Facility and are bates labeled CRMC-Talc-000001 through CRMC-Talc-000248 and these documents are true and correct copies of documents found at the Facility.


Margaret J. Baumgardner

Subscribed and sworn to before
me this 1st day of March, 2011.




Notary Public