

## Forwarded Conversation

Subject: Heated mbi

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From:  
Date: Sun, Jul 9, 2023 at 12:57  
To: I. Ziderman

Shavua tov,

In the attached article, you write as follows " It was found that, on heating to 60 °C, pure synthetic MBI undergoes the same irreversible change in colour to blue, as does the dyed wool. Accordingly, the colour alteration in dyed wool is not dependent on some interaction between wool and MBI, but is an inherent solid-state property of the compound".

I would like to know, were you ever successful in getting blue from the murex trunculus, via heating the dye solution itself (As opposed to heating the tzitzis after it's already dyed).  
A friend of mine told me he tried, and the result was reddish purple. Is it possible that there is a difference between heating synthetic mbi, and the murex dye?

Looking forward to your response,

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From:  
Date: Sun, Jul 9, 2023 at 4:33 AM  
To:

## TEKHELET FOUNDATION מכון התכלת

בע"ה

Shalom

When violet-hued solid MBI – pure synthetic or in admixture ( for example, dyed wool)– is heated gently, it will go blue: it must be in the solid state for this to occur.

There is no violet or blue dye solution, only solid.

Thanks for your enquiry.

בברכה



**.I Ziderman, Ph.D.**

**CEO and Scientific Director, Tekhelet Foundation מנכ"ל והמדען הראשי, מכון התכלת**

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From:  
Date: Sun, Jul 9, 2023 at 8:03 AM  
To: I. Ziderman <

Thanks for your quick response.  
What would happen if you heat the murex glands after they've been dried, such as what ptil does to them?

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From: **I. Ziderman**  
Date: Sun, Jul 9, 2023 at 4:02 PM  
To:  
Cc:

## **TEKHELET FOUNDATION מכון התכלת**

בע"ה

Depends on what is the dye composition of those glands.

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From:  
Date: Sun, Jul 9, 2023 at 4:06 PM  
To: I. Ziderman  
Cc: C

I'm assuming it's a mixture of mbi, ind, and dbi, isn't that what the trunculus is made of?  
Has anyone ever been successful in making blue from the trunculus via heating the dried glands, as opposed to heating the tztizis afterwards?

Once again, thanks for your responses, it is much appreciated.

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From: **I. Ziderman <**  
Date: Mon, Jul 10, 2023 at 10:15 AM  
To:  
Cc:

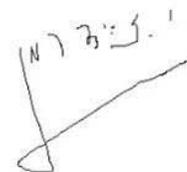
בע"ה

שלום רב

SEE BELOW/

בברכה

ישראל



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I'm assuming it's a mixture of mbi, ind, and dbi, isn't that what the trunculus is made of?

MY POINT IS THAT IT DEPENDS ON THE **RELATIVE COMPOSITION** OF THE PRODUCT.

Has anyone ever been successful in making blue from the trunculus via heating the dried glands, as opposed to heating the tzitizis afterwards? **NOT THAT I KNOW OF/ NOONE I KNOW HAS TRIED**

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From:  
Date: Mon, Jul 10, 2023 at 12:11 PM  
To: I. Ziderman  
Cc:

"MY POINT IS THAT IT DEPENDS ON THE **RELATIVE COMPOSITION** OF THE PRODUCT. "

Ok thanks for clarifying. Is it possible to get the murex glands to the correct composition, that would enable it to therefore to be cooked and turn blue? In a natural way, that would have been available in ancient times.

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From: I. Ziderman

Date: Tue, Jul 11, 2023 at 2:54 AM  
To:

בנ"ה

שלום רב

NO COOKING, JUST MOMENTARILY WARMING.

TO YOUR QUESTION, NO

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**.I Ziderman, Ph.D.**

**CEO and Scientific Director, Tekhelet Foundation מנכ"ל והמדען הראשי, מכון התכלת**

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-  
From:  
Date: Tue, Jul 11, 2023 at 5:27 AM  
To: I. Ziderman

Why would that be, why wouldn't heating the murex glands be effective?

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From: **I. Ziderman**  
Date: Tue, Jul 11, 2023 at 5:53 AM  
To:

## **TEKHELET FOUNDATION** מכון התכלת

בע"ה

בברכה

Why would that be, why wouldn't heating the murex glands be effective?

Because one does know how to engineer the percentage composition of the 3 dyestuffs.

I cannot continue answering your questions. If you would study biochemistry, you would understand these issues. The accepted way is to rely on the evaluation of experts in technical questions..