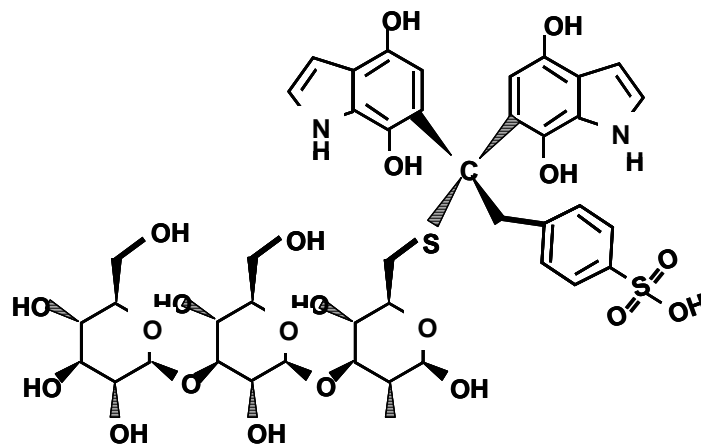


## Critical Method Review

### “The Curious Case of Thiotimoline and a Public Health Outbreak”



Dr. Russell Grant

Laboratory Corporation of America, Inc.

Method Example Provided by Dr. Bob Kobelski, CDC

## **"Thiotimoline" a Molecule developed by the Author "Isaac Asimov" in 1948**

### **"The Endochronic Properties of Resublimated Thiotimoline" in 1948**

"Dissolves 1.12 seconds before the water was added "catechol dissolve at the water boundary – Asimov's Biochem Thesis"

### **"The Micropsychiatric Applications of Thiotimoline" in 1952**

"A quantitative classification of "certain mental disorders" – dissolution rate is a function of the # of personalities of the test subject."

### **"Thiotimoline and the Space Age" in 1959**

"Chronochemistry" batteries to predict success of USSR Satellite Launches"

Unable to prove "Heisenberg Failure" to get a sample of thiotimoline to dissolve without later adding water to it – each time nature intervened...whatever man decided.

### **"Thiotimoline to the Stars" in 1973**

"Theory of hypersteric hindrance and endochronic molecules into polymers. Spaceships built out of endochronic materials will travel into the future in search of water to interact with".

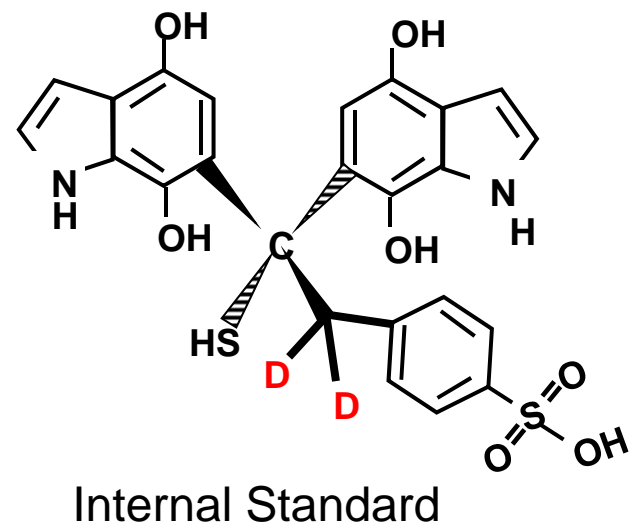
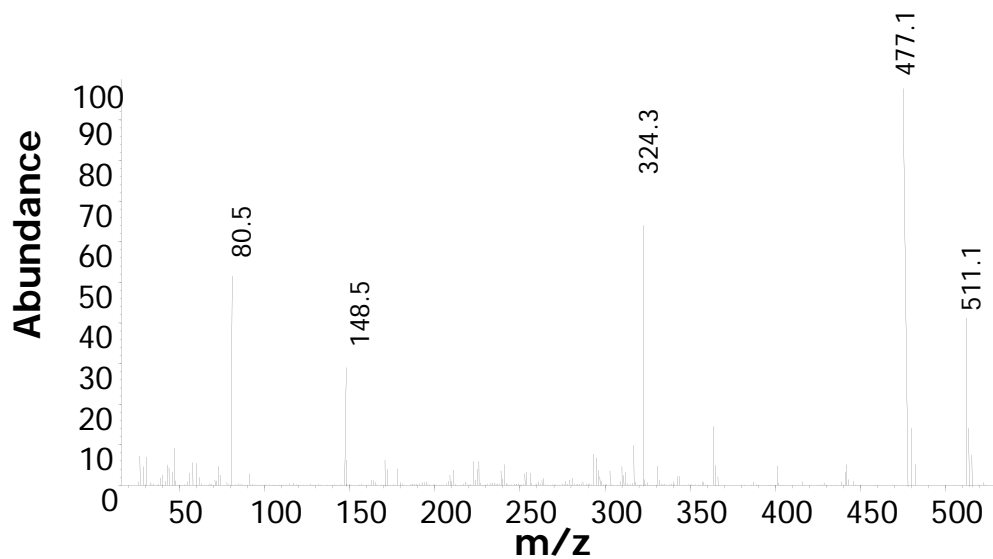
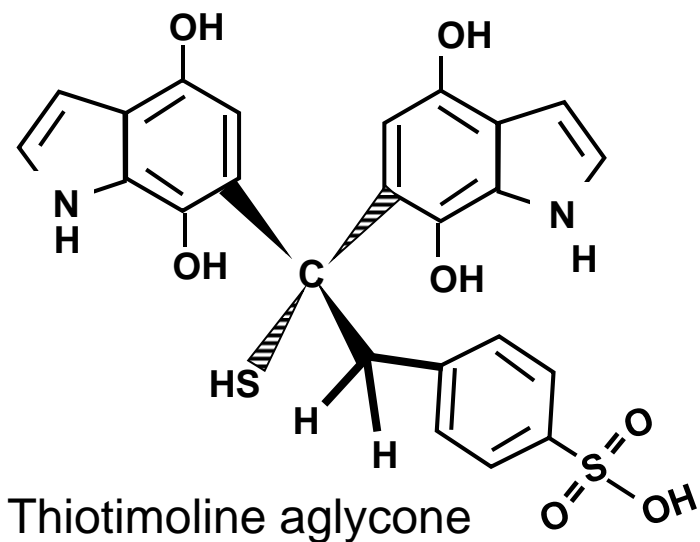
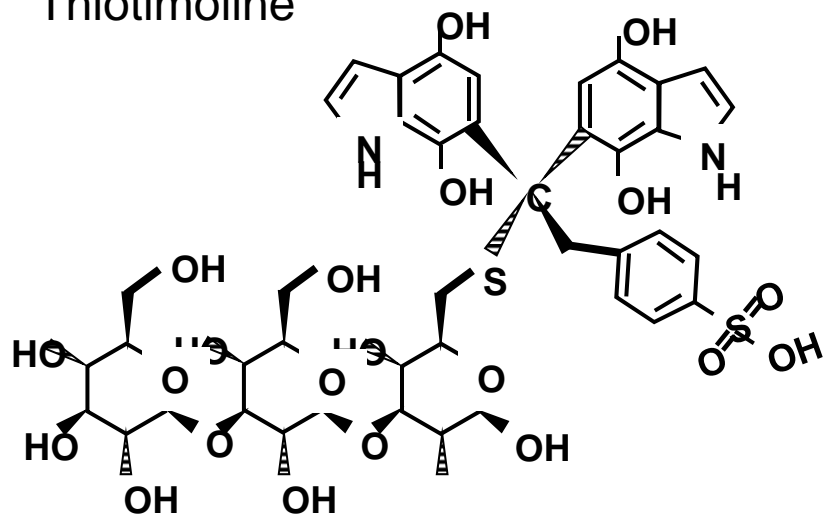
### **"And Silently Vanish Away" Glenn Beaver 1971**

When the substance is injected into lab rats they start to silently and suddenly vanish.

### **"Antithiotimoline" Topi H. Barr 1977**

"Thiotimoline-like compound which extrudes only into the past, enabling the scientist to create images of past events." The narrator complains that thiotimoline is extremely difficult to obtain, and suspects that the CIA or other agencies are controlling the supply for their own reasons.

Thiotimoline



## Analysis of Thiotimoline by Isotope Dilution LC-MS/MS

### Sample Preparation

Acid hydrolysis of glycoside  
SPE clean-up Waters HLB – 3 cc cartridge  
2 mL MeOH wash  
2 mL H<sub>2</sub>O wash  
Apply 500 uL sample  
Add 50 uL ISTD  
2 mL 5% MeOH Wash  
1 mL Elute 100% MeOH  
Evaporate to dryness  
Reconstitute in 100 uL MeOH

**HPLC** Column: Phenomenex Kinetex™ C18 100 Å LC Column 50 x 2.1 mm x 2.6 µm

Eluent A: Water + 0.5% formic acid

Eluent B: Methanol + 0.5% formic acid

Flow: 0.10 mL/min

Gradient:

0.0 50% B  
1.0 50%B  
3.0 75%B  
4.0 75%B  
5.0 50%B  
6.0 50%B

### MS/MS

Negative ESI

SRM

Quantification: 511.1-477.1

Qual 1: 511.1 – 80.5 (54%)

Qual 2: 511-1 – 324.3 (64%)

