

ExperTox

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February 8, 2006

PRODUCT ANALYSIS FOR RELENTLESS IMPROVEMENT

A compound was submitted to ExperTox Inc. for analysis. The compound was labeled as Pyritinol (ExperTox sample #32064). In addition, a standard for the compound in question was supplied. The sample and its standard was solubilized, analyzed via LC/MS with diode array detection in the wavelength range 200-900nm, and checked for bacterial growth in trypticase soy broth media. The results for the sample are summarized below.

Pyritinol Lot#6A014

- 1.) Both the sample and standard showed limited solubility with 2 mg in both HPLC grade methanol and acetonitrile.
- 2.) The sample did not show bacterial growth and thus was determined to be sterile.
- 3.) LC/MS analysis produced two absorbance peaks for both the standard and sample. The standard showed absorbance peaks at 220 and 290nm with intensity measurements at 15 and 19mAU, respectively. The sample showed absorbance peaks at the same wavelengths with intensities of 54 and 65mAU, respectively. The greater absorbance intensities of the sample peaks indicate stronger potency relative to the standard obtained from SPECTRUM. The results suggest that the sample is structurally identical to the standard pyritinol.

The resulting ICP/MS results for heavy metals are attached.

Sidney B. Bonnette Ph.D.
Senior Analyst, ExperTox Inc.

ExperTox Inc. Analytical Laboratory

Toxicology Analysis - Custom Tests

Date: 2/9/2006 **Reason:** Other
Client: Relentless Improvement **Location/Job#:**
Donor Last Name: Unknown
Donor First Name:
Date Collected: 1/31/2006 **Donor MI:**
Date Record: 2/9/2006 **Donor ID:** 000-00-0000
Date Tested: 2/3/2006 **Lab ID:** 32064
Specimen Type: Pyritinol Lot #6A014

Tests Requested	Results	Reference Concentrations
Arsenic (As) -	223.9 ug/L	N/A
Cadmium (Cd) -	< 0.01 ug/L	N/A
Chromium (Cr) -	82.5 ug/L	N/A
Lead (Pb) -	25.1 ug/L	N/A
Mercury (Hg) -	1.8 ug/L	N/A

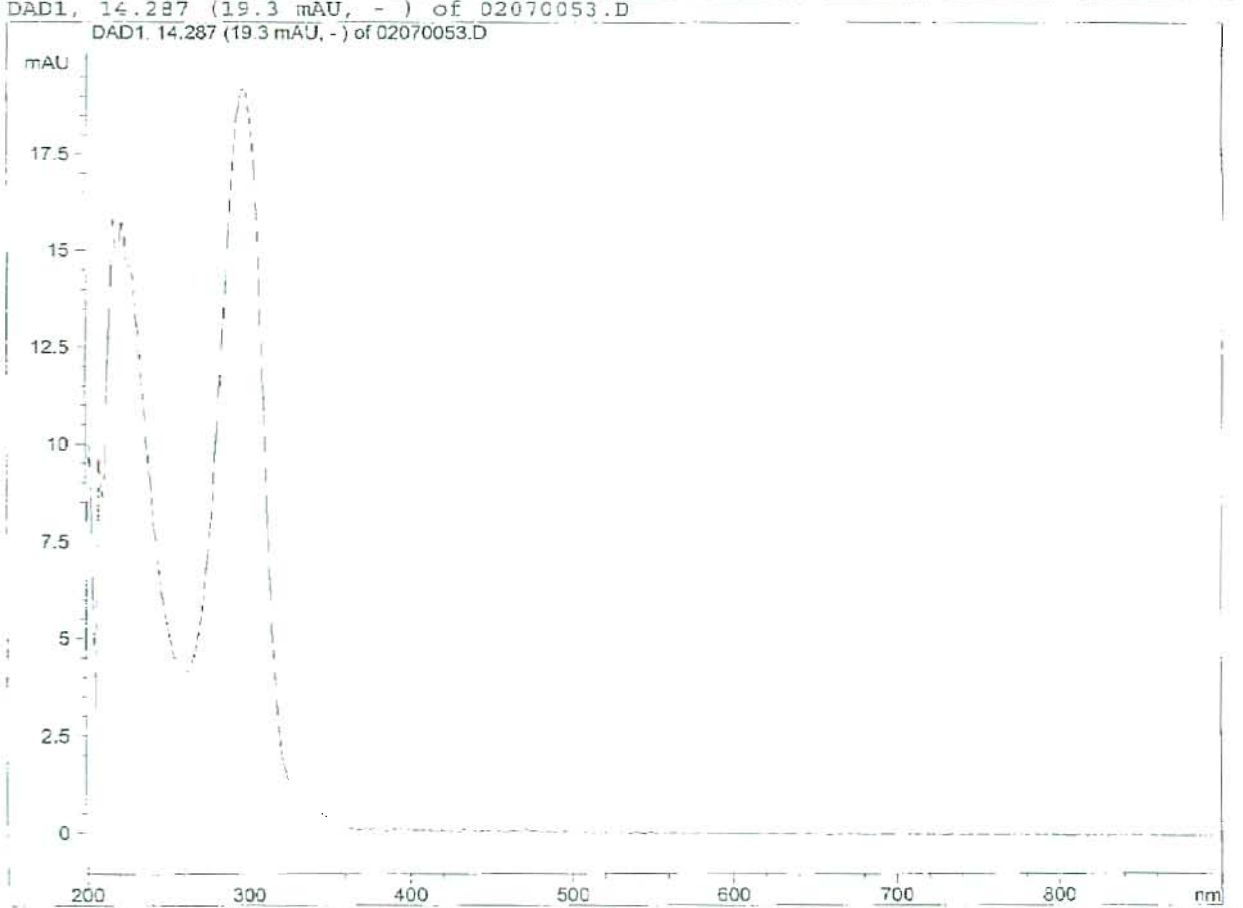
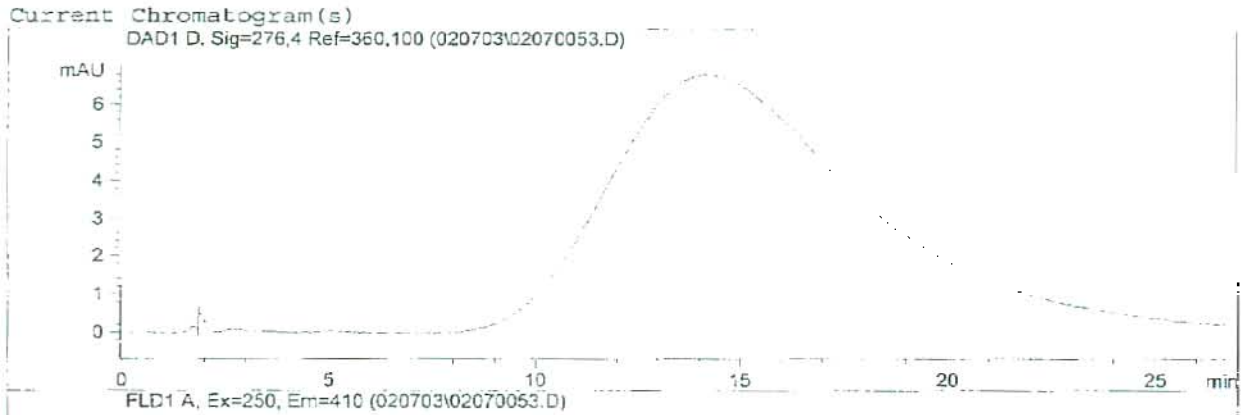
Confirmation by GC/MS: Analysis by ICP-MS

Comment: Tested in trypticase soy broth, did not show bacterial growth, determined to be sterile.

Certified by: Ernest D. Lykissa, Ph.D., Laboratory Director
Forensic Toxicologist

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Pyriith-Std

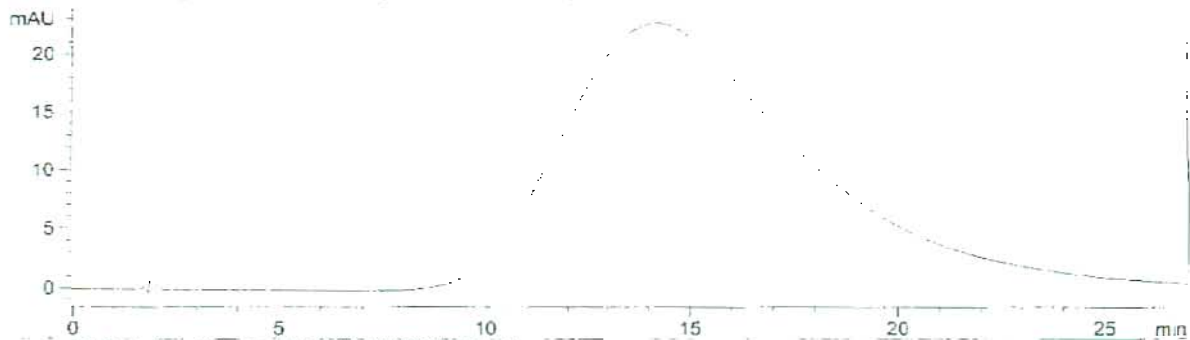


Pyridin-Chinese

32064

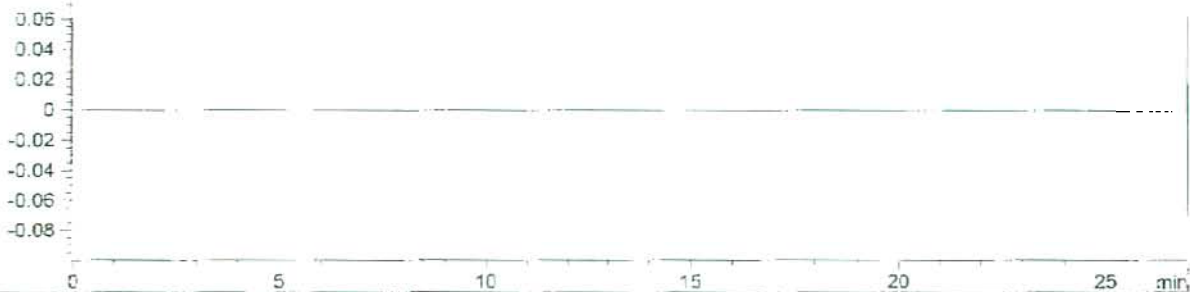
Current Chromatogram (s)

DAD1 D, Sig=273,4 Ref=360,100 (020703\02070054.D)



FLD1 A, Ex=250, Em=410 (020703\02070054.D)

LU



DAD1, 14.155 (63.9 mAU, -) of 02070054.D

DAD1, 14.155 (63.9 mAU, -) of 02070054.D

