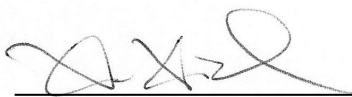
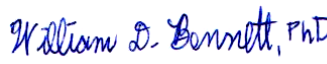




Certificate of Analysis

Product Name:	N-Acetyl-L-Cysteine	Lot #:	9950944
Catalog #:	AAC101	MW:	163.2
Formula:	C ₅ H ₉ NO ₃ S	Appearance:	Off white powder
Storage:	Cool dry place < 4°C	HPLC Purity:	99.64%
Loss on Drying:	0.30 %	Residue on Ignition:	0.05%
pH:	1.7	Melting Point:	107-108°C
Specific Rotation:	+21.8° c = 5 in phosphate buffer pH7	Heavy Metals:	<10 ppm

Completed by:	<u>Xiaozhou Xu</u>	<u></u>	<u>3/18/2016</u>
	Print Name	Signature	Date
Approved by:	<u>William D. Bennett, PhD</u>	<u></u>	<u>3/18/2016</u>
	Print Name	Signature	Date