2016-45678
CERTIFICATE OF ANALYSIS

Product Description	ZEATIN, *trans* ISOMER (2E)-2-METHYL-4-(1H-PURIN-6-YLAMINO)-2-BUTEN-1-OL
Product Number	Z125
Lot Number	16C0125072
Storage Temperature	-20-0˚ C
Molecular Weight	219.25
Formula	$C_{10}H_{13}N_5O$
CAS Number	1637-39-4

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in 1 N KOH @ 10 mg/mL	Passes
Physical Appearance Color* Texture	 PM-1 to PM-4, PM-19, PM-29 HC-30, AC-4, or AC-41 Crystalline Powder; may have flakes or clumps	 PM-4 White Crystalline Powder w/ Flakes
Solution Appearance Clarity Color	 Clear Colorless to Slight Colored Tint	 Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 5 mins.)	2 min
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity by HPLC	Minimum 98.0%	99.44%
Loss on Drying	For Information Only	0.20%

* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

Biological Testing:

Test Concentration: 2.0 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants.	Kalanchoe	Passes
	Begonia	Passes

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

***Phyto*Technology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. *Phyto*Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

Recommended Shelf Life Date: March 2019

P*hyto*Technology Laboratories®
Dedicated to Growth

***Phyto*Technology Laboratories®**
Mailing Address: P.O. Box 12205, Shawnee Mission, KS 66282-2205
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ISO 9001 REGISTERED FIRM

Created on 15 March 2016 JN
Revised on 18 April 2016 JN

Gary Seckinger, Ph.D.

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