

# 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              15M0125071  
Storage Temperature   -20-0° C  
Molecular Weight      219.25  
Formula                  C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O  
CAS Number             1637-39-4

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in 1 N KOH @ 10 mg/mL	Passes
Physical Appearance Color*	PM-1 to PM-4, PM-19, PM-29 HC-30, AC-4, or AC-41	PM-4 White Crystalline Powder w/ Clumps
Texture	Crystalline Powder; may have flakes or clumps	
Solution Appearance Clarity Color	Clear Colorless to Slight Colored Tint	Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 5 mins.)	1 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.	Tobacco Callus	Passes
	Sugar Cane	Passes

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

**PhytoTechnology 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. PhytoTechnology 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: December 2018



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories®**

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