

# CERTIFICATE OF ANALYSIS

Product Description	ZEATIN, MIXED ISOMERS
Product Number	Z896
Lot Number	05B89623
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	13114-27-7

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in KOH	Soluble in KOH
pH <sup>1</sup> (0.005 g/5 mL KOH)	13.0 – 14.0	13.70
Physical Appearance Color*	RM-1 (Super White) RM-1 to RM-4, RM-8, RM-31, HC-30, AC-4, or AC-41	RM-31 (Brilliant White)
Texture	Crystalline to Fluffy Powder that may have flakes or clumps	Fluffy, Clumpy Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	Within 1 min
Precipitation Formation	None	None
Purity HPLC	98%	99.1%
Melting Point	208 – 210° C	208.4 – 209.6° C

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

<sup>1</sup> pH is dependent on the type and amount of solvent used.

## Biological Testing:

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultures	Cape Sundew	Passes—supported plant growth and/or shoot proliferation with no morphological aberrations to plants
	Hosta	Passes—supported plant growth and/or shoot proliferation with no morphological aberrations to plants

The material described in this certificate was manufactured in the United States of America and is synthetic or plant derived in nature. No animal components were used in the manufacture of this product.

**Phyto Technology Laboratories, LLC 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: February 2010

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Quality Assurance Manager



PhytoTechnology  
Laboratories, LLC  
Dedicated to Growth

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