AUXINS AND ROOTING HORMONES

PhytoTechnology
Laboratories offers a
variety of auxins
that can be used to
induce root induction in plants. These
products have been
tested for plant tissue culture applications to insure the
highest quality products



Catalogue Number	PRODUCT DESCRIPTION	PKG SIZE	QTY	PRICE
I 538	INDOLE-3-BUTYRIC ACID (IBA; 4-[3-Indolyl]butyric acid) Plant Tissue Culture Tested	5 g 25 g 100 g	EACH EACH EACH	

PRODUCT SPECIFICATIONS

 $\begin{array}{lll} \textbf{STORAGE TEMPERATURE} & 0.5 \text{ C} \\ \textbf{MOLECULAR WEIGHT} & 203.24 \\ \textbf{FORMULA} & \text{C_{12}H}_{13}\text{N}\text{O}_{2} \\ \textbf{CAS NUMBER} & 133.32.4 \\ \end{array}$

PHYSICAL APPEARANCE White To Off-White Powder

TITRATION >98%

SOLUBILITY 5% MeOH; Clear Lt. Brown Solution

 WATER (Karl Fischer):
 <2%</td>

 MELTING POINT:
 122-124 C

 ELEMENTAL ANALYSIS:
 C—70.9%

 H—6.45%

H---6.45% N---6.89%

TLC: 8EtOH: 2 H₂O; One Spot

INFRARED: Reference

BIOLOGICAL TESTING Supports or Facilitates Plant Growth and/or Shoot Proliferation

in two or more plant tissue cultures.

PRODUCT NOTES:

 HAZARD RISK (R:)
 25.36/37/39

 SAFETY PRECAUTIONS (S:)
 36/37/39.45-26

 HARMONIZED COMMODITY CODE:
 2915
 60
 19

OTHER NOTES: Auxin like plant growth regulator Store liquid stock solutions at 0-5 C Sterilization:

Autoclave/filtration_Recommended Concentration: 0.01 to 10.0 mg/L

CATALOGUE	PRODUCT	PKG	QTY	PRICE
NUMBER	DESCRIPTION	SIZE		
I 560	INDOLE-3-BUTYRIC ACID	5 g	EACH	
	Potassium Salt	25 g	EACH	
	K-IBA	100 g	EACH	
		500 g	EACH	

PRODUCT SPECIFICATIONS

 STORAGE TEMPERATURE
 0.5 C

 MOLECULAR WEIGHT:
 241.3

 FORMULA:
 C12H12N02K

 CAS NUMBER
 60096-23.3

PHYSICAL APPEARANCE: White To Off-White Powder

ASSAY 99+%
PURITY (By TLC) One Spot
WATER (Karl Fischer): <1.0%

IR Conforms to Known Reference SOLUBILITY (5 in H₂O) Clear, Colorless to Light Yellow

pH 6.0 to 8.0

BIOLOGICAL TESTING Supports or Facilitates Plant Growth and/or Shoot Proliferation

in two or more plant tissue cultures.

PRODUCT NOTES:

HAZARD RISK (R:)

SAFETY PRECAUTIONS (S:)

HARMONIZED COMMODITY CODE: 2915 60 19 00

OTHER NOTES:



PRODUCT UPDATES

AUXINS AND ROOTING HORMONES

CATALOGUE NUMBER	PRODUCT DESCRIPTION	PKG SIZE	QTY	PRICE
N 600	α—NAPHTHALENEACETIC ACID (NAA; 1-Naphthaleneacetic Acid)	2 5 g 100 g	EACH EACH	
	Plant Tissue Culture Tested	500 g	EACH	

PRODUCT SPECIFICATIONS

PHYSICAL APPEARANCE White To Pale Yellow Powder

SOLUBILITY 5% MeOH; Clear, Slightly Yellow Solution

WATER (Karl Fischer): <3.0%MELTING POINT: $284 \pm 4\%$ ASSAY, TITRATION (NaOH) 97+%

ELEMENTAL ANALYSIS: C—77.4%—Theoretical

H—5.41%—Theoretical N—0.00%—Theoretical

INFRARED: Reference

ULTRAVIOLET E₂₈₁U 6,000; (Extraction in H₂0)

BIOLOGICAL TESTING Supports or Facilitates Plant Growth and/or Shoot Proliferation

in two or more plant tissue cultures.

PRODUCT NOTES:

HAZARD RISK (R:) 22 SAFETY PRECAUTIONS (S:) 24/25

HARMONIZED COMMODITY CODE: 2915 90 30 00 OTHER NOTES: Auxin like plant growth regulator

Soluble in KOH or NaOH Store liquid stock solutions at 0-5 C

Recommended Concentration: 0.01 to 10.0 gm/L

Sterilization: Autoclave

CATALOGUE NUMBER	PRODUCT DESCRIPTION	PKG SIZE	QTY	PRICE
I 885	INDOLE-3-ACETIC ACID (IAA; Heteroauxin) Plant Tissue Culture Tested	5 g 25 g 100 g	EACH EACH EACH	

PRODUCT SPECIFICATIONS

PHYSICAL APPEARANCE: Light Tan Crystalline Powder

SOLUBILITY 5.0% in EtOH; Clear Reddish Brown Solution

ASSAY (By Titration) 98+%

ELEMENTAL ANALYSIS: C—68.6%—Theoretical

H—5.18%—Theoretical N—8.00%—Theoretical

MELTING POINT: $165 \pm 5C$ WATER (Karl Fischer): <1.0%

TLC 7 n-PrOH: 3 NH4OH; One Spot

INFRARED: Reference

ULTRAVIOLET E₂₈₁> 5,500; (Extraction in MeOH)

BIOLOGICAL TESTING Supports or Facilitates Plant Growth and/or Shoot Proliferation

in two or more plant tissue cultures.

PRODUCT NOTES:

HAZARD RISK (R:)

SAFETY PRECAUTIONS (S:) 22-24/25

HARMONIZED COMMODITY CODE: 2915 90 30 00 OTHER NOTES: Auxin plant growth regulator

Soluble in EtOH, KOH, NaOH

Store liquid stock solutions at -20 to 0 C Sterilization: Autoclave or Filtration

Recommended Concentration: 0.01 to 10.0 mg/L

PLANT GROWTH REGULATOR CONVERSION CHART

Preparation Directions: Dissolve each component in isopropyl alcohol and bring to volume in one quart (1 liter) of water.

Weight	Approximate Measurement	Percent Concentration	Concentration (PPM)
10 grams	2 tablespoons	1%	10,000
	6 teaspoons		
5 grams	1 tablespoon	0.5%	5,000
	3 teaspoons		
2.5 grams	1½/2 teaspoon	0.25%	2,500
1.0 gram	¹/4 teaspoon	0.1%	1,000

For best results, we recommend that fresh solutions be prepared each day. If solutions are stored, store refrigerated in a dark bottle. Do not store solutions for more than one week. Protect the solutions from light.

Recommended Rooting Concentrations:

1000-2500 ppm Herbaceous, soft succulent cuttings 2500-7500 ppm Soft wood, semi-hardwood cuttings

7500-15,000 ppm Harwood, and Deciduous hardwood cuttings



PhytoTechnology Laboratories, LLC

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