

## Product Information Sheet

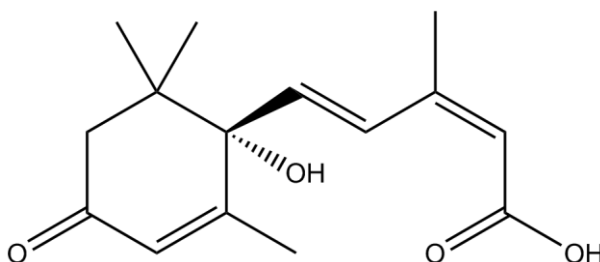
### A102 (+/-) Abscisic Acid

Synonym: ABA; mixture of (2Z,4E)-5-[(1S)-Hydroxy-2,6,6-trimethyl-4-oxo-2-cyclohexen-1-yl]-3-methyl-2,4-pentadienoic acid and its enantiomer (2Z,4E)-5-[(1R)-Hydroxy-2,6,6-trimethyl-4-oxo-2-cyclohexen-1-yl]-3-methyl-2,4-pentadienoic acid

CAS: 14375-45-2

Formula: C<sub>15</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Wt: 264.32



#### Properties:

Form: Powder

Appearance: White to Yellow Powder

Application: Plant Growth Regulator

Solubility: EtOH, DMSO

Typical Working Concentration: Varies with application, should be determined by end user.

Storage Temp: -20°C

Other Notes: Plant Tissue Culture Tested

#### Application Notes:

ABA has traditionally been used as a defoliant because of its role in leaf abscission (Ohkuma *et al.* 1963). It was later found to regulate processes associated with seed maturation and germination. ABA is also involved in stomal movement and helps mediate plant water balance and osmotic stress tolerance (Zhu 2002). It is one of the key model compounds for studying abiotic stress resistance in plants.

#### References:

Merck 13, 9

K Ohkuma, JL Lyon, FT Addicott, OE Smith (1963) *Science* Vol. 142 (3599) pg. 1592-1593

JK Zhu (2002) *Annu. Rev. Plant Biol.* Vol. 53. Pg 247-273.

Please Note: While PhytoTechnology Laboratories® tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

#### PhytoTechnology Laboratories®

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