Euromed has uncovered a Natural Control of Sugar Balance Solution with the phytonutrient abscisic acid (ABA), that helps regulate healthy carbohydrate metabolism and modulates stress responses. ABA is present in fruits and vegetables: according to a recent USA dietary survey, about 92% of the population might have a deficient intake of ABA due to an inadequate intake of fruits and vegetables. ABAlife™ is a concentrated Fig fruit (Ficus carica), extract standardized to ABA, providing a natural way to support normal carbohydrate metabolism.

Features:
- ABA is an isoprenoid molecule and intermediate in human carotenoid synthesis. The naturally occurring (S)-ABA isomer has been shown to have multiple physiological effects in adaptation to stress, including enhancement of carbohydrate metabolism. 1
- In addition to its presence in foodstuffs like fruits and vegetables, ABA is produced and released by several human cell types and through the carotenoid biogenesis pathway. 1
- Euromed received an exclusive license agreement with Biotherapeutics Inc for patented technology for abscisic acid. The two patents licensed by Euromed protect structure-function health claims for the novel application of ABA for use in products designed to maintain healthy blood sugar levels and similar statements. 7
- ABAlife™ is a standardized extract of Spanish fig fruit, Ficus carica, containing one of the highest concentrations of ABA found in nature. 1
- Manufactured following the PhytoProof™ process of quality control carefully preserving fruit ABA content as well as other health promoting substances.

Mechanism of Action:
ABA upregulates genes that are involved in carbohydrate metabolism. The precise mechanism of action relates to an innovative pathway: ABA binds to the lanthionine synthetase C-like receptor 2 peptide (LANCL2) and initiates cellular signaling and an enzyme cascade. 1, 2, 3 This ultimately increases the expression of a glucose transporter (GLUT-4) and stimulates Glucagon-like peptide-1 (GLP-1) release in the gut. These physiological activities improve blood carbohydrate homeostasis and response to stress, 1, 2, 3 suggesting adaptogen-like functions. Maintenance of healthy blood sugar levels is important for optimal metabolic and neurological functions. 10

Efficacy:
Recent independent clinical research on ABA intake found a beneficial effect in maintenance of normal blood carbohydrate levels. 4 Another independent human study found health conditions associated with impaired glucose tolerance correlated with lower levels of plasma ABA, that were restored after a return to normal health, showing the physiological significance of ABA on glycemic control. 5 A new study on ABAlife™ from a leading Australian University (prepared for publication) found beneficial modulation of blood sugar levels in normal individuals, comparable to previous human research data. 6

This pilot study found ABAlife™ to be efficacious at low 100-200 mg doses. Both doses of ABAlife™ produced relevant reductions in blood glucose following a high glycemic index (GI) glucose drink, particularly significant for the 200 mg dose.

Safety:
Figs are GRAS (Generally Recognized as Safe); ABA is self-affirmed GRAS, and was evaluated as a safe substance by U.S. Environmental Protection Agency (EPA), posing no dietary risks to humans.

Formulations:
- A highly concentrated powdered extract (50 X)
- A 10:1 concentration (10X) powdered extract
- A 3:1 liquid extract (3X) in a base of glycerol and water

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