



Kidney Bean

The material of the common bean (*Phaseolus vulgaris*) is rich with fiber, protein, vitamin B1, folate, iron, and magnesium, among other macroand micronutrients. The sprouts and full-grown plant contain ample amounts of essential minerals, various vitamins, and phenolic compounds. Eating kidney beans and other legumes improves your food quality score (FQS).

Phytoactives

Chlorophyll

Green pigment in plants with potential anti-inflammatory, antioxidant, and anti-bacterial activity

Flavanols

Promote antioxidant, anticancer, antimicrobial, and anti-inflammatory activity

Lignans

Large plant polyphenolic compounds that bypass human digestion, feed gut bacteria, and provide antioxidant activity

Lariciresinol (1.2 mcg/g)* Pinoresinol (0.3 mcg/g)*
Secoisolariciresinol (.8 mcg/g)*
Syringaresinol (0.08 mcg/g)*

Phenolic Acids

Phytoactive compounds that promote antioxidant activity and promote vascular health

Ferulic Acid (128.4 mcg/g)* Feruroyl-malate² Coumaroyl-malate² Sinapic Acid (51.7 mcg/g)*

Flavonols

Promote antioxidant activity and promote vascular health

Quercetin (6.8 mcg/g)*

Quercetin-3-glucoronide²
Quercetin-3-glycoside²

Kaempferol-3-glycoside²

Kaempferol (12.2 mcg/g)*

Quercetin-3-acetyl-glycoside²

Kaempferol-3-O-acetyl-glucoside (164 mcg/g)*
Kaempferol-3-O-glucoside (398.8 mcg/g)*
Kaempferol-3-O-xylosyl-glucoside (115 mcg/g)*
Rutin²

Isoflavanoids

Phenolic compounds with direct antioxidant effects

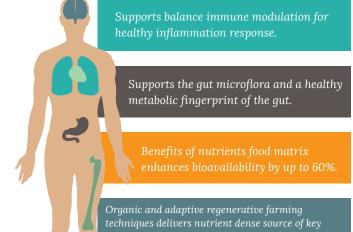
Genistein (2.0 mcg/g)*

Saponins

Support the immune system and promote healthy cholesterol and blood glucose levels

Soyasaponin V² Soyasaponin I²

What is the Whole Food Matrix?



phytonutrients and helps balance healthy lifestyles.

Increased intake of vegetables and fruits in whole food nutrition influences individual epigenetic expression of our health potential.



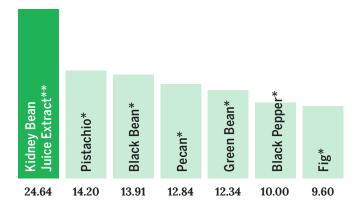
Gallic Acid Equivalence

What is GAE?

GAE, or "gallic acid equivalence," indicates levels of important phytoactives available in the plant and extracts. GAE is derived by comparing to the gallic acid reference standard, a simple phenolic substance. Studies have shown that phytoactives in plants contribute to their beneficial effect on development of chronic diseases.

Total Phenolic Concentration

Measured: Total Phenolics as Gallic Acid Equivalence (mg/g)



^{*} Data is mean values from Phenol-Explorer Database¹

Values subject to change based on strain and experimental methods

Key Nutrients

Percentages shown as %DV per 5g of kidney bean juice extract

Iron

Used by the body to make red blood cells, hormones, and connective tissue.

44%

Magnesium

An essential mineral that supports nerve and muscle function, the immune system, and a healthy heart.

18%

Riboflavin (Vitmain B2)

Water-soluble vitamin vital for energy production, cell function, metabolism, and growth/development.



Biotin (Vitamin B7)

B vitamin necessary for energy metabolism. $histone\ modification,\ gene\ regulation,\ and\ cell$ signaling.

13%

Calcium

The most abundant mineral in the body, a key structure of bones, and component of muscle function, vascular contraction, nerve transmission, cellular signaling, and hormone secretion.

10%

Other Nutrients

(in order of %DV per 5g kidney bean juice extract)

Pantothenic acid (Vitamin B5) Manganese Phosphorus Vitamin B6 (Pyridoxyl-5'-phosphate) Folate. Fiber Potassium Carbohydrate Niacin (Vitamin B3) Lipids

Selenium

Protein Choline

Thiamin (Vitamin B1)

Wholistic Matters

We are dedicated to advancing the latest insights and information available in nutrition therapy and clinical nutrition and to presenting only the most balanced, credible, and reliable clinical nutrition and science available.

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References

- Rothwell, J.A., et al., Phenol-Explorer 3.0: a major update of the Phenol-Explorer database to incorporate data on the effects of food processing on polyphenol content. Database, 2013. 2013: b. bat070-bat070.
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 Ramabulana, T., Mavunda, R. D., Steenkamp, P. A., Piater, L. A., Dubery, I. A., & Madala, N. E. (2015). Secondary metabolite perturbations in Phaseolus vulgaris leaves due to gamma radiation. Plant Physiology and Biochemistry, 97, 287-295. doi:https://doi.org/10.1016/j.plaphy.2015.10.018

^{**} Data on file with Wholistic Matters