

AIM

Better understand the nutrient and phytochemical content of Swiss chard to provide insight into the plant's health effects.

METHODS

Systematic review of published studies evaluating the presence and levels of nutrients and bioactive components in Swiss chard to provide a comprehensive nutritional profile and connections to human health.

Studies were included in review if they 1) used samples of any part of Swiss chard or its seeds and 2) evaluated nutrient and bioactive compounds.

OUTCOMES



Studies

The review pulled out 28 high-quality studies detailing the chemical composition of Swiss chard



Chemical Compounds

192 unique chemical compounds categorized into 23 groups:



Main Reported Chemical Groups

Betalains Lipids Flavonoids Terpenes

MOST CONCENTRATED COMPOUNDS IN SWISS CHARD

MACRONUTRIENTS

Carbohydrates

Fiber

Protein

Lipids

MINERALS

Potassium

Magnesium

Calcium

Phosphorus

Sodium

VITAMINS

Ascorbic acid

FLAVONOIDS

2"-xylosylvitexin

6"-malonyl-2"xylosylvitexin

PHENOLIC ACIDS

PIGMENTS

Chlorophyll

Betalains