

Function of Nutrients in Potatoes

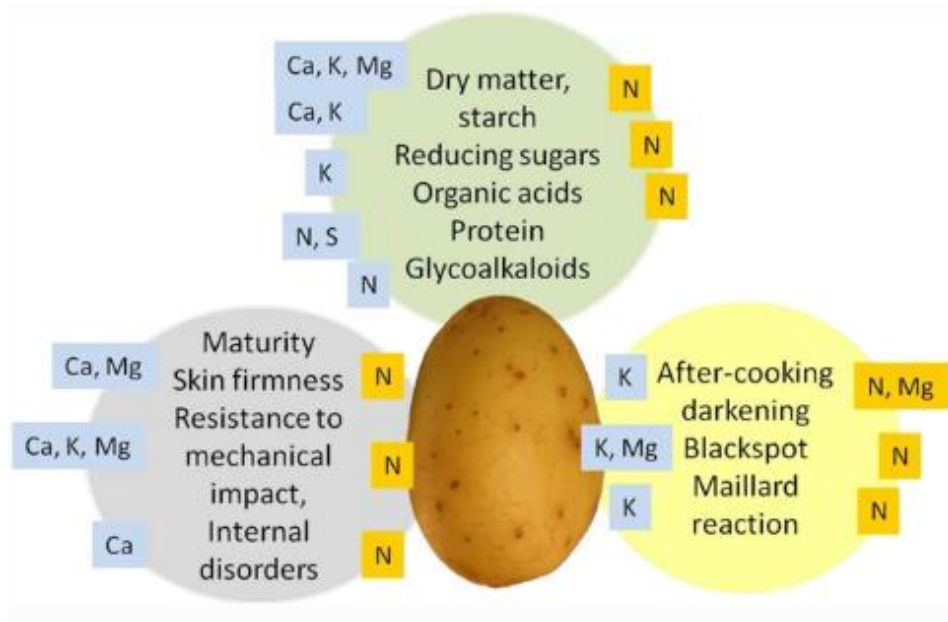


Image Source: (Naumann, Koch, Thiel, Gransee, & Pawelzik, 2019)

Nutrient	Main Function
Nitrogen (N)	Growth and yield
Phosphorus (P)	Cell division in shoots and roots, provides energy for the plant process of ion uptake and transport
Potassium (K)	Stomata control, sugar transportation, improves crop resilience to plant stressors
Calcium (Ca)	Cell wall structure, improves crop resilience to plant stressors
Sulfur (S)	Amino acid synthesis
Magnesium (Mg)	Essential part of the chlorophyll molecule
Iron (Fe)	Chlorophyll synthesis
Manganese (Mn)	Essential for photosynthesis
Boron (B)	Transportation and metabolism of carbohydrates, formation of pollen tube and cell wall
Zinc (Zn)	Auxin synthesis
Copper (Cu)	Metabolism of nitrogen and carbohydrates
Molybdenum (Mo)	Nitrogenase enzymes and nitrate-reductase