LUPIN WILD SPECIES





Mediterranean region Israel

Four species of lupins are globally cultivated, and used in food markets - *Lupinus albus*, *L. angustifolius*, *L. luteus*, and *L. mutabilis*. Wild lupins have promising potential as novel crops. Nevertheless, the level of alkaloids does not currently allow a direct use of wild lupins as novel food without processing.

Lupinus pilosus and L. palaestinus are two lupin species, native to Israel. L. pilosus is found in scrublands in the Eastern side of the Mediterranean region (i.e., Israel, Lebanon, Tourkey, Greece). L. palaestinus is endemic to Israel and found in sandy soils.

- The species bloom from February to May and bare fruits by early summer.
- The pods are typically with 3-6 seeds.
- Total alkaloid level exceeds the range of edible lupins before industrial processing.
- The pod is thick and turns from light green to light brown when ripe, and is covered with dense white hairs.
- Ripe seedpods dry, curl up, burst open and disperse their seeds out.

Lupinus pilosus



Commonly known as blue lupin. Usually appears in large clusters, and renown for its impressive carpet of flowers.

CHARACTERISTICS

- Large seeds, rich in proteins and other nutritious compounds;
- Tolerates a wide range of soil conditions basalt and calcareous.



Lupinus palaestinus



Commonly known as Palestine Lupin, the flowers are light blue, lilac, white.

CHARACTERISTICS

- Seeds smaller than blue lupins;
- Adapted to light sandy soils.





