



# LEAFY

FOR **HYDROPONIC**  
PRODUCTION AND **VERTICAL**  
FARMING

Experience the  
**Leafy** choice





## VILMORIN-MIKADO, VILMORIN-MIKADO, A NEW GLOBAL DIMENSION!

Vilmorin is a brand of **Vilmorin-Mikado**, which is a Business Unit of Limagrain, integrating the activities of Vilmorin (French seed company) and Mikado Kyowa Seed (Japanese seed company).

**Vilmorin-Mikado** is a global seed business unit which has strong bases spread over the five continents; it offers a wide, unique and original high-quality range to all professionals in the vegetable industry.

Everywhere, closer to you.



Close to the rapid evolution of the market, **Vilmorin-Mikado** offers a full range of high quality Leafy seeds. Its dedicated teams develop innovations adapted to the entire industry.

## WHAT MEANS HYDROPONIC PRODUCTION AND VERTICAL FARMING?

Today, consumers are more and more attracted to clean, healthy and tasty products. That is why hydroponic production is gaining popularity worldwide. One of the most popular plants to grow in a hydroponic system and Vertical farming is leafy green vegetables like lettuce. Vilmorin-Mikado, as a major global Leafy Player, has in his portfolio several varieties suitable for these growing systems.

### VARIETIES SUITABLE FOR HYDROPONIC SYSTEMS AND VERTICAL FARMING

The varieties suitable for hydroponic production have the following benefits:

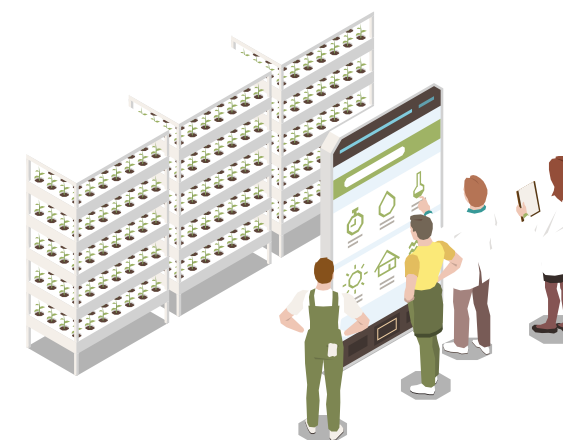
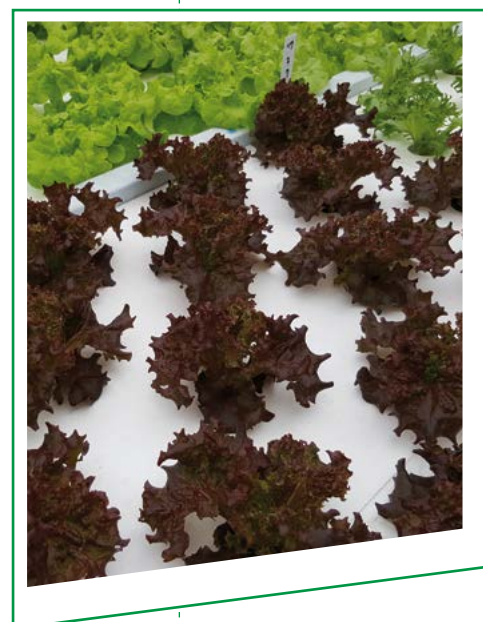
Color intensity

Uniformity  
of the shape  
and the crop



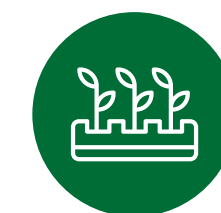
Fast and compact  
growth

Tip Burn tolerance



**IN VERTICAL FARMING** or Plant Factory we grow crops in a total closed controlled-environment (artificial light, temperature, CO2...) and plants are growing mainly vertically in stacked layers.

**HYDROPONIC PRODUCTION** is a method of growing plants without soil, by instead using mineral nutrient solutions in a water solvent. It exists several technics of hydroponics with partial controlled conditions. It could be open or closed systems with or without artificial light.



## HYDROPONIC PRODUCTION AND VERTICAL FARMING WORLDWIDE

### USA

Various CEA (Controlled Environment Agriculture) farms are created all over USA and Canada.

### CHINA

Already 10 farms and 160 will be built in the coming years.

### JAPAN

More than 200 vertical farms.

### BRAZIL

Urban farming with basic hydroponic systems is gaining popularity in Brazil.

**90%**  
of the vertical  
farms are in  
Asia

### TAIWAN

100 vertical farms.

\* Vilmorin-Mikado subsidiaries locations in all hydroponic and vertical farming production areas



## NEWCUT /// MF6914

- Typology: Multileaf type Lollo.
- Leaves: Very curly and incised.
- Shape: Very compact.

**RESISTANCE:**  
HR: BI:16-35EU

## CELESTI ///

- Typology: Butterhead.
- Leaves: Smooth leaves.
- Shape: Well balanced, half open to open head, intermediate to large volume.

**RESISTANCE:**  
HR: BI:16-34,36EU / Nr:0  
IR: LMV

## LIRICE /// BVP30173

- Typology: Batavia.
- Leaves: Thick leaves, curly tips.
- Shape: Open type, intermediate volume, very beautiful shape.

**RESISTANCE:**  
HR: BI:16-28,30-32,36EU / Nr:0  
IR: LMV

## TONALE /// BVP30173

- Typology: Batavia.
- Leaves: shiny blond leaves.
- Shape: good volume and nice shape, half open type.

**RESISTANCE:**  
HR: BI:16-25,27,28,30-32,34,36EU

## EXQUISE ///

- Typology: Batavia.
- Leaves: Light green shiny leaves.
- Shape: Half erected, open type.

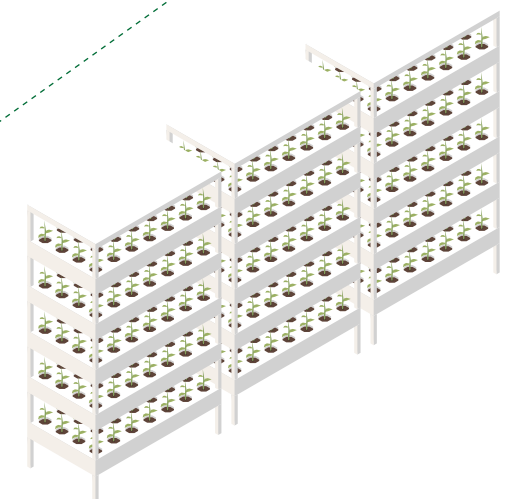
**RESISTANCE:**  
HR: BI:16-28,30-32EU  
IR: LMV / Fol1

## MENTHOLE /// BVA8542

- Typology: Batavia.
- Leaves: Very serrated nice leaves.
- Shape: Intermediate volume.

**RESISTANCE:**  
HR: BI:16-36EU / Nr:0

# BLOND TYPE



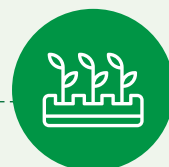


## MIGNONE /// BVP15232

- Typology: Batavia.
- Leaves: Curly leaves.
- Shape: Intermediate plant volume, rustic.

### RESISTANCE:

HR: BI:16-36EU / Nr:0  
IR: LMV



# BLOND TYPE



## NAVARONE /// BVP6179

- Typology: Batavia.
- Leaves: Thick leaves with bright color.
- Shape: Heavy head, open type, well balanced.

### RESISTANCE:

HR: BI:16-28,30-32EU



## MARADONE /// BVP1170

- Typology: Batavia.
- Leaves: Thick leaves with attractive color.
- Shape: Very well balanced.

### RESISTANCE:

HR: BI:16-32,34,36EU / Nr:0  
IR: LMV / Fol1

## QUATOR /// DIP10387

- Typology: Oakleaf.
- Leaves: Intermediate leaf size with shiny green.
- Shape: Good volume.

### RESISTANCE:

HR: BI:16-32,34,36EU / Nr:0



## QUITO /// DIP10851

- Typology: Oakleaf.
- Leaves: Mid-blond green shiny leaves. Blistered leaves with intermediate lobes.
- Shape: Good volume.

### RESISTANCE:

HR: BI:16-36EU / Nr:0  
IR: LMV

## PADAWANE /// DIA8964

- Typology: Oakleaf.
- Leaves: Smooth leaves and intermediate lobes.
- Shape: Well balanced.

### RESISTANCE:

HR: BI:16-36





**MATINALE /// BVA352**

- Typology: Batavia.
- Leaves: erected thick and blistered leaves.
- Shape: Open type.

**RESISTANCE:**  
HR: Bl:16-25,27,28,30-32,34EU

**MKS-L501G (DV) ///**

- Typology: Large Romaine.
- Leaves: Huge leaves.
- Shape: Medium size, good weight.

**RESISTANCE:**  
IR: Fol2

**YAMBU /// ROM19247**

- Typology: Romaine.
- Leaves: Thick and shiny dark green leaves.
- Shape: Medium size, closed head.

**RESISTANCE:**  
HR: Bl:16-36EU / Nr:0

**MKS-L502G ///**

- Typology: Butterhead.
- Leaves: dark green leaves.
- Shape: Unique shape, loose heading compact lettuce.

**SUCRETTE /// ROM20201**

- Typology: Mini Romaine.
- Leaves: Thick and blistered leaves.
- Shape: Half open head, medium size and good weight.

**RESISTANCE:**  
HR: Bl:16-29,32,34EU  
IR: LMV:1

**INTERCUT /// MF15012**

- Typology: Multileaf.
- Leaves: Medium thick and crunchy leaves, fine stem, finely serrated leaves up to the basis. Excellent leaf size uniformity.
- Shape: Semi-flat shape, large head.

**RESISTANCE:**  
HR: Bl:16-32,36EU / Nr:0

**QUECHUA /// DIP8314**

- Typology: Oakleaf.
- Leaves: Dark green leaves.
- Shape: Well balanced.

**RESISTANCE:**  
HR: Bl:16-32,34,36EU / Nr:0  
IR: LMV

**BVA3883 ///**

- Typology: “Reine des glaces” type.
- Leaves: Smooth foliage and serrated thick leaves (like iceberg).
- Shape: Nice shape.

**RESISTANCE:**  
HR: Bl:16-32,34EU / Nr:0

**OFELIA ///**

- Typology: Butterhead.
- Leaves: Thick dark green leaves with nice internal yellow white color.
- Shape: Good size.

**RESISTANCE:**  
HR: Bl:16-30EU

DARK  
GREEN  
TYPE





**ALCALINE ///** DIPA11111

- Typology: Oakleaf.
- Leaves: Serrated leaves with brown red color.
- Shape: Large head.

**RESISTANCE:**  
HR: BI:16-36EU / Nr:0  
IR: LMV

**CREPINE ///** DIP11773

- Typology: Oakleaf.
- Leaves: Brown red color leaves.
- Shape: Volume and weight.

**RESISTANCE:**  
HR: BI:16-33EU / Nr:0  
IR: LMV

**BUZZCUT ///** MFA14661

- Typology: Multileaf.
- Leaves: Curly leaves.
- Shape: Nice shape.

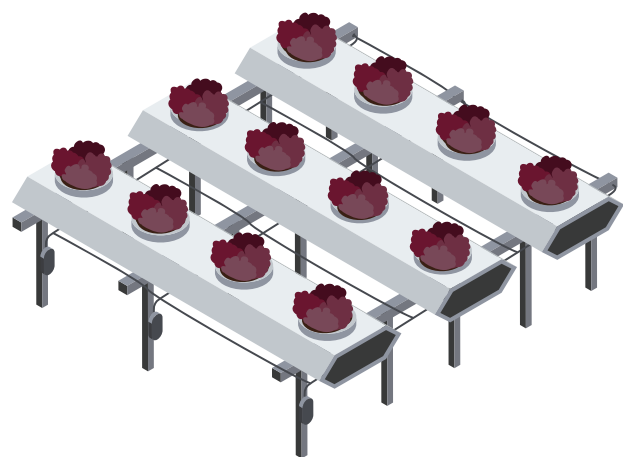
**RESISTANCE:**  
HR: BI:16-36EU / Nr:0

**NIGHTCUT ///** MFA7176

- Typology: Multileaf.
- Leaves: Fine leaves with good size.
- Shape: Good size.

**RESISTANCE:**  
HR: BI:16-36EU / Nr:0

RED  
TYPE





## M16-006 (DV) ///

- Taste: Spicy taste.
- Typology: Mizuna.
- Leaves: Green shiny leaves.



## UPLAND CRESS ///

- Taste: Sweet and unique cress taste.
- Typology: Garden Cress.
- Leaves: Small dark oval leaves. Fines stems.

# TASTY RANGE



## WASABI ///

- Taste: Hot and spicy taste similar to wasabi.
- Typology: Wild Rocket.
- Leaves: Thick and erected leaves with fast growing.

## RED PANDA ///

- Taste: Sweet with an acid tone.
- Typology: Sorrel.
- Leaves: Medium green leaves with bright red vein.



## PRIMUM ///

- Taste: Intense aromatic taste.
- Typology: Dill.
- Leaves: Dark green foliage.



## ADI ///

- Taste: Intense aromatic basil taste.
- Typology: Basil.
- Leaves: Big and thick leaves.





# BABY LEAVES AND HERBS



## KX1///

- Shape and Color: Innovative red kale with unique 3D frilly shape.
- Typology: Siberian kale.
- Leaves: Dark red wine incised and frilly leaves.



## KX2 DV///

- Shape and Color: Innovative green kale with unique 3D frilly shape.
- Typology: Siberian kale.
- Leaves: Light green incised and frilly leaves.



## RUBY RED///

- Shape and Color: Dark green leaves with intense red vein.
- Typology: Red Chard.
- Leaves: Smooth and uniform leaves.



## DEA///

- Shape and Color: Dark red color.
- Typology: Amaranth.
- Leaves: Dark red oval leaves.



## FORTESSA/// BB10693

- Shape and Color: Dark bright green.
- Typology: Lettuce.
- Leaves: Thick and curly leaves.



# COLORFUL RANGE

## ORIGINAL SHAPE AND COLOR



## RUBRA///

- Shape and Color: Dark color.
- Typology: Garden orach.
- Leaves: Red leaves with good texture.



## TERSUS///

- Shape and Color: Nice round shape leaves.
- Typology: Tat Soi.
- Leaves: Thick and smooth leaves.



## BARBAROSA///

- Shape and Color: Shiny dark red leaves.
- Typology: Mustard.
- Leaves: Uniform red leaves.



## RUBENS///

- Shape and Color: Unique bright dark red color.
- Typology: Bulls Blood.
- Leaves: Uniform red leaves.





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