

# MELFADE® PF

*The gentle way to  
get radiant skin*

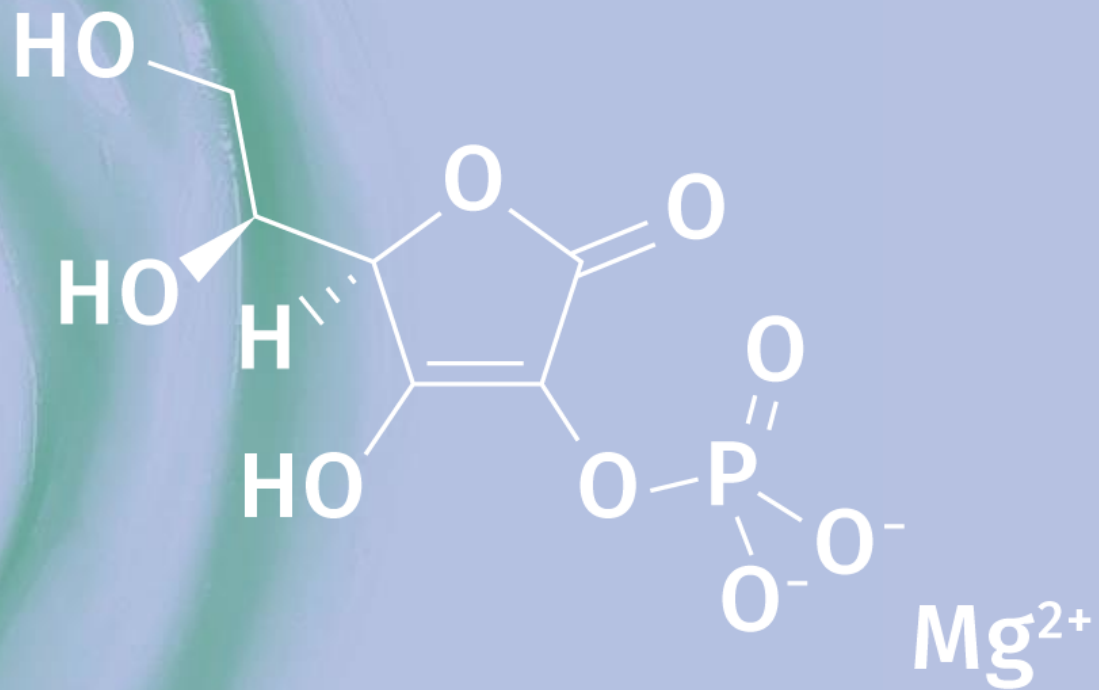


Personal Care & Aroma **Bioactives** Technical & Performance Ingredients UV Filters Aroma Ingredients



# MELFADE<sup>®</sup> PF

combines the benefits of natural arbutin with those of magnesium ascorbyl phosphate



# Bearberry leaf

(*Arctostaphylos uva-ursi*)

-  The bearberry (*Arctostaphylos uva-ursi*) is a small shrub with evergreen leaves
-  Can be found on the high mountains of Europe, America and Asia
-  Leaves have astringent and anti-inflammatory properties:  
Used medicinally in parts of Europe to heal wounds and reduce scarring

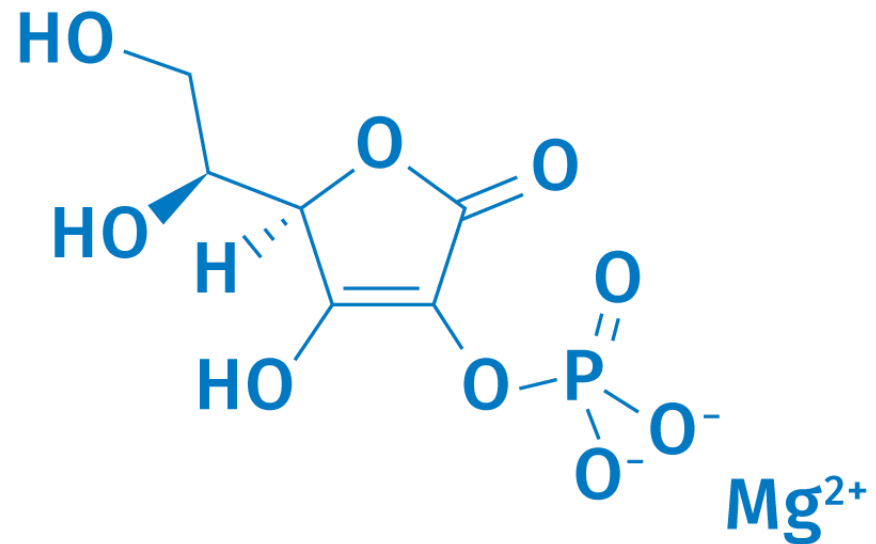
The main constituent of bearberry leaves is a glucoside named arbutin, which is known as an effective inhibitor of tyrosinase



# Magnesium Ascorbyl Phosphate is a multi-functioning form of vitamin C

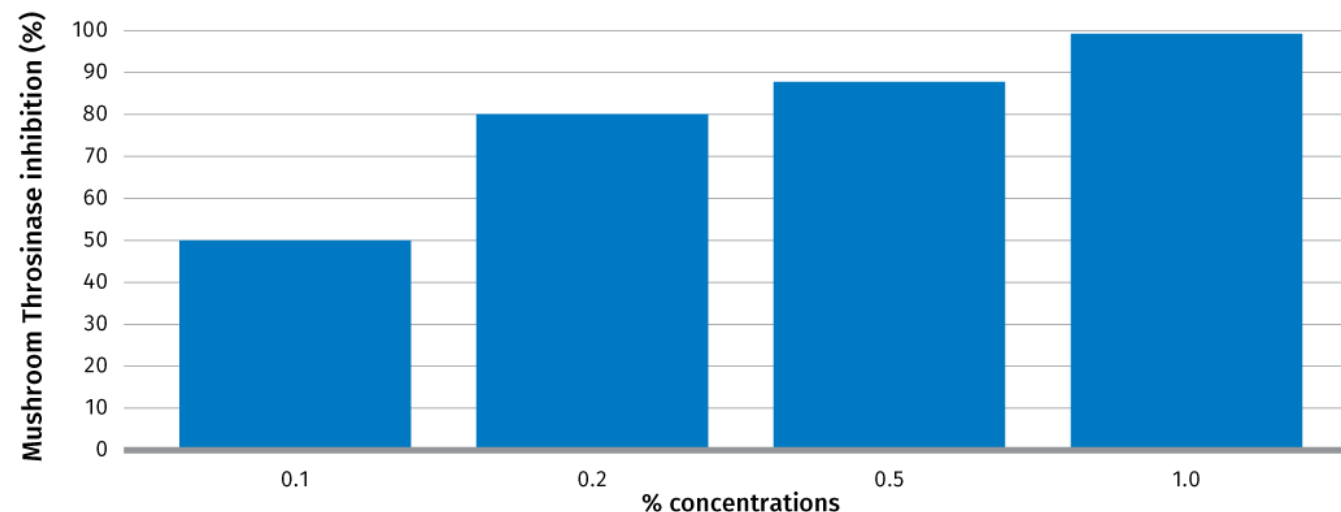
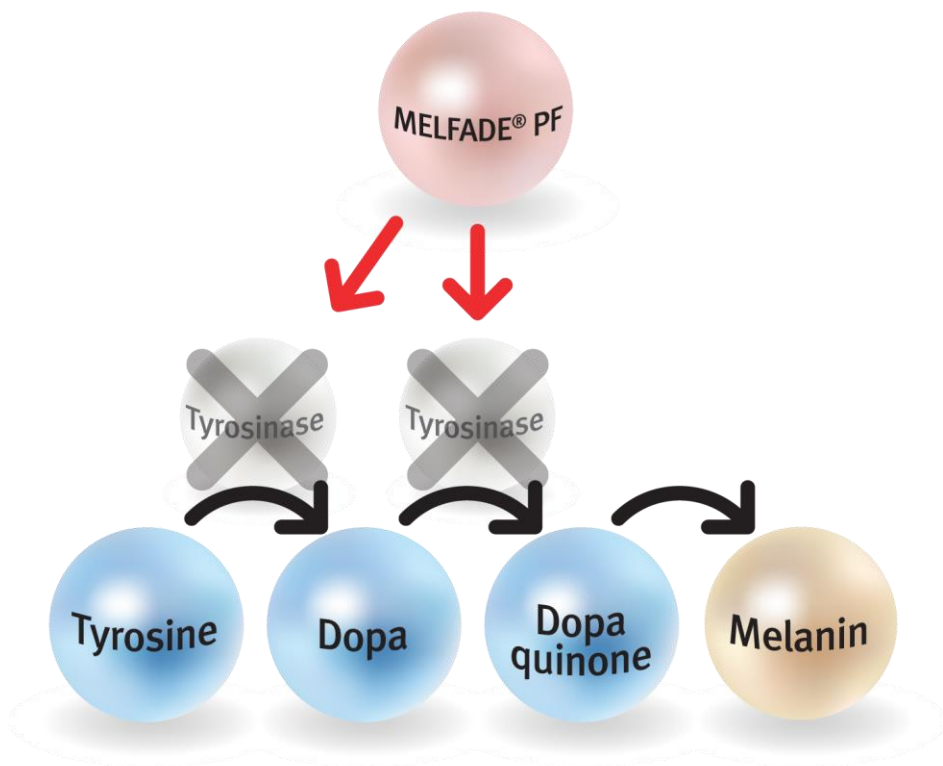
## Main functions

- Tyrosinase inhibition
- Reduction of active oxygen species
- Enhancement of collagen synthesis



# MELFADE® PF inhibits tyrosinase at very low concentrations

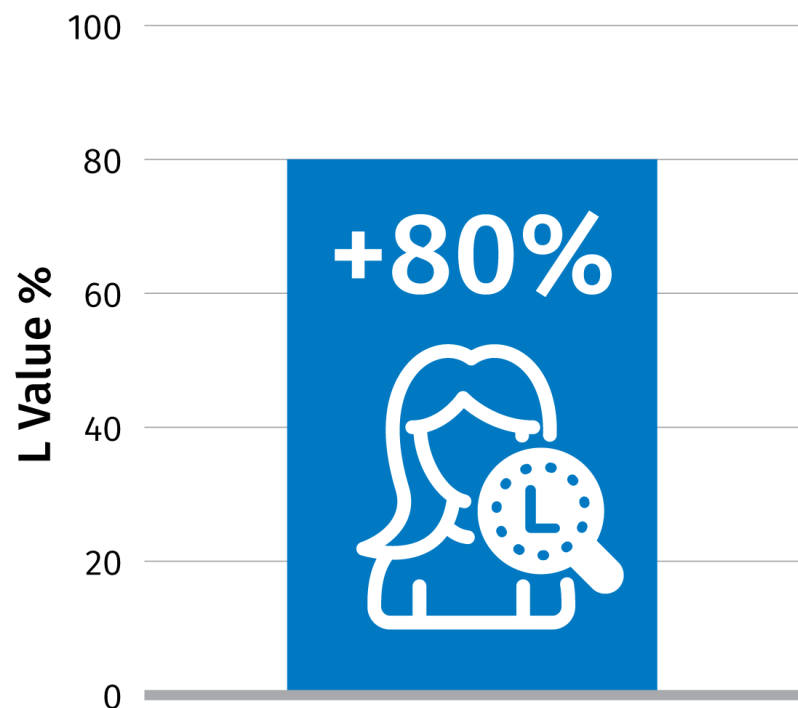
**Method:** mushroom tyrosinase inhibition assay that use spectrophotometrical determination of the dopaquinone formation with L-Dopa as substrate.



100% tyrosinase inhibition obtained with 1% MELFADE®-J.  
50% tyrosinase inhibition obtained with 0.1% MELFADE®-J.

# MELFADE® PF

*More efficient than arbutin*



**MELFADE® PF is 80% more effective than Arbutin alone.**



MELFADE® PF or arbutin in a 5% formulation were applied to the forearms of 40 women of Chinese descent twice a day for three months.



The efficacy was evaluated by Chromameter studies.



The graph shows the efficacy of the products compared to the control zone for the “L” Lightening parameter which represents lightness after three months.

# MELFADE<sup>®</sup> PF

*The gentle way to get radiant skin*

## Unique Product Features

- ✓ Combines the benefits of natural arbutin with those of magnesium ascorbyl phosphate
- ✓ Very effective tyrosinase inhibitor at low concentrations
- ✓ More effective than arbutin alone

## Benefits

- ✓ Skin complexion appears more even, radiant and youthful



# Disclaimer

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