

# Dihydromyricetin (DMY)

—— A major bioactive component extracted in the traditional

Chinese herb "Vine Tea"





Application Cases

**Marketing Proposal** 



#### I. Introduction of DMY

### **O1** Chemical Property

[Product Name] Dihydromyricetin

[Molecular Formula] $C_{15}H_{12}O_8$ 

[Molecular Weight] 320.25

**[CAS Number]27200-12-0** 

[INCN Name]DIHYDROMYRICETIN

**(SPEC.)**90%, 95%, 98%

[Appearance] Light milk yellow to off-white powder

[Appearance] Easily soluble in methanol, ethanol & acetone, partially soluble in water.

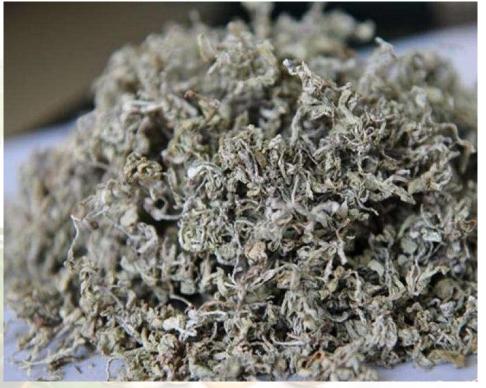


#### I. Introduction of DMY

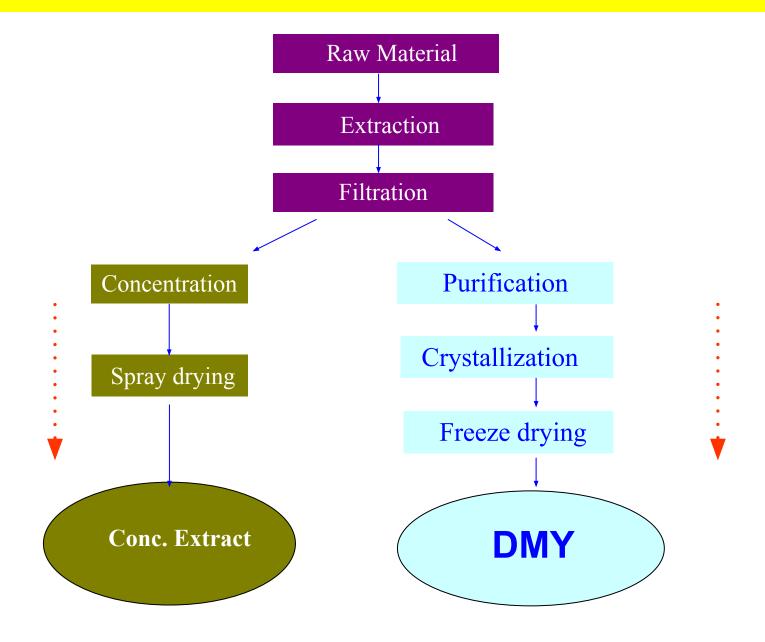
### 02 Raw Material

Vine Tea (Ampelopsis grossedentata)





#### **MANUFACTURE FLOW CHART OF DMY**





#### I. Introduction of DMY

03

#### **Appearance**

#### 90% & 98% Dihydromyricetin (DMY)





#### I. Introduction of DMY

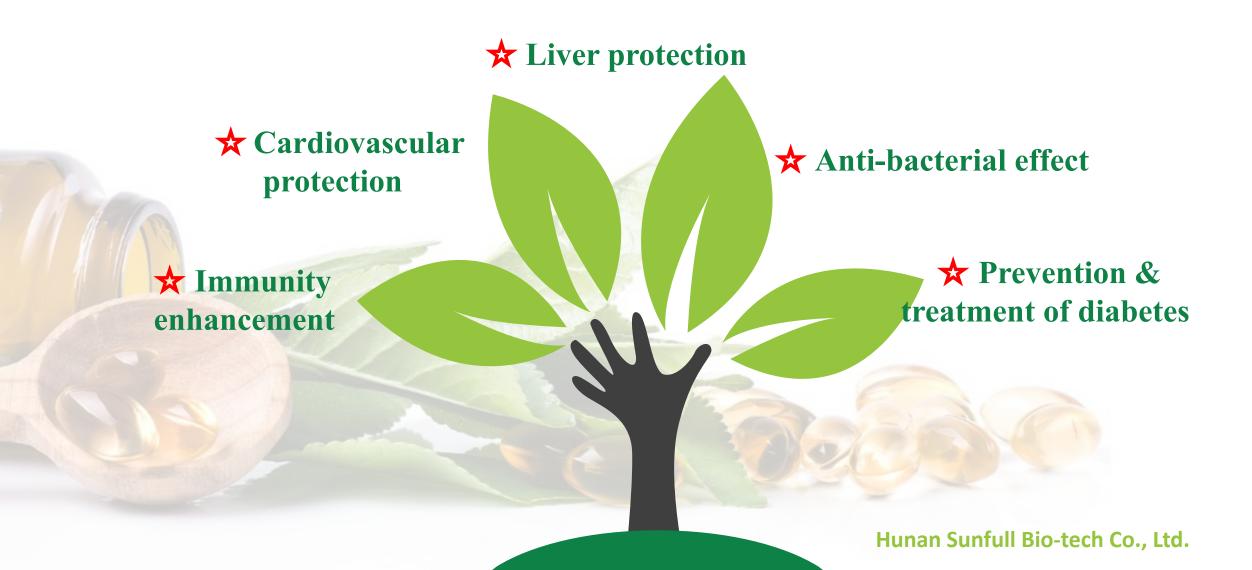


Fig.1: The structure of dihydromyricetin (1) and its metabolites (2-8)

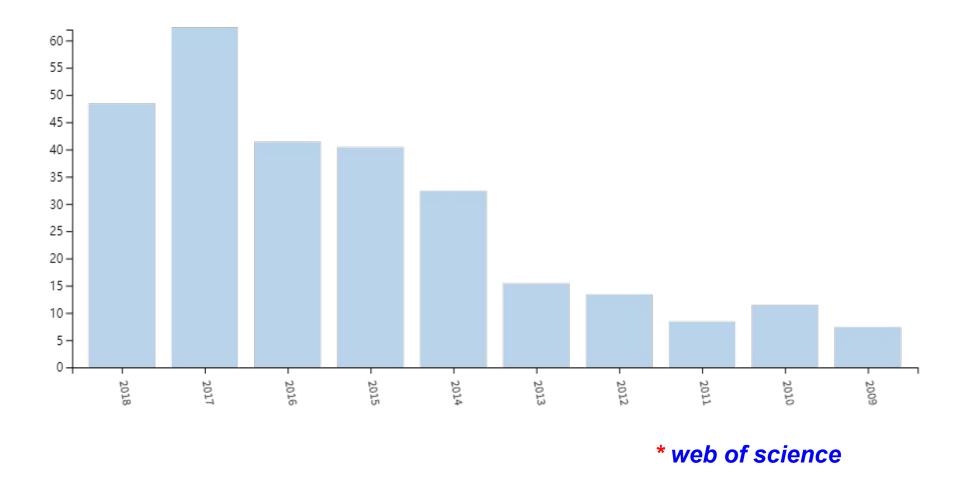


Fig.2: Scientific research papers on Dihydromyricetin (2009-2018)







1

**Dietary Supplement** 

#### **Liver protection**

Dihydromyricetin is an extract from the oriental herbal "Vine tea". It has been used traditionally in Chinese medicine as a hangover cure, and research shows it prevents and reduces liver damage caused by alcohol consumption.







**Purple Tree - Supplement for Hangover Prevention (30 pills)** 

Main active ingredient: Dihydromyricetin (DMY) A natural extract and antioxidant which supports liver detox

Dihydromyricetin can protect the liver and accelerate the rapid decomposition of acetaldehyde into nontoxic substances, reducing its damage to hepatocytes, acetaldehyde is the metabolite of ethanol. In addition, dihydromyricetin can improve the increase of serum lactate dehydrogenase activity caused by hepatocyte injury, inhibit the formation of collagen fibers in hepatic M cells, thus the dihydromyricetin plays the role of protecting liver, greatly reduces the damage of ethanol to liver, and has the liver recover to the normal state quickly.

The effect of dihydromyricetin is rapid and lasting. It is a good product to protect liver.



2



**DHM Depot - DIHYDROMYRICETIN (DHM) (50 Capsules)** 

Main ingredient: Dihydromyricetin (DHM) Cure Hangovers Before They
Start

PREVENT HANGOVERS – When taken after your last drink, before going to bed, DHM helps minimize the effect alcohol has on the body leaving you with less of a hangover the next morning.

NO MORE WASTED DAYS – Feel more refreshed and alert after a night out. No need to waste your Sundays anymore.

LESS SEVERE HEADACHES AND REDUCED NAUSEA – DHM helps reduce the severity of headaches and nausea you experience the morning after drinking.



3



Morning Recovery - Hangover Prevention Drink (100 ML)

Main active ingredient: Highly Bioavailable Liquid DHM, Milk Thistle, Electrolytes

Dihydromyricetin (DHM) is proven to effectively increase alcohol metabolizing enzymes (ADH and ALDH) activity in the liver, accelerate the metabolism of alcohol to a non-toxic acetate, and reduce the accumulation of acetaldehyde.







NatureBell – Dihydromyricetin 400 mg (120 Capsules)

Main active ingredient: DHM Support Hangover Prevention,
Support Relief of Anxiety, Headache and Brain Fog After
Drinking

Dihydromyricetin (DHM) speeds up your liver's ability to metabolize alcohol. This allows your liver to resume its normal function more quickly and lessens the damage alcohol consumption causes.



**5** 



Sunday Mornings – Best Hangover Remedy (1 Packet and 2 Capsules)

Main active ingredient: Vitamins, Willow Bark Extract, Dihydroyricetin (DHM) fight hangover symptoms quick.

DHM supplements greatly reduces hangover symptoms and negates many of the negative side effects commonly associated with drunkenness such as slurred speech, loss of coordination, and lowered reaction time without any adverse side effects.







DYCETIN – Dihydromyricetin (DHM) Tablets (1,000mg)

Main active ingredient: 99% pure Dihydromyricetin

Hangover Prevention

HELP PREVENT HANGOVERS - Studies show DHM helps the body process alcohol and reduces it's impact on your body.

TAKE BACK YOUR MORNINGS - No more wasted days. Wake up feeling more refreshed and ready to take on the day.



#### **Cosmetics Functions**

- 1) Dihydromyricetin, extracted from Vine Tea, also known as ampelopsis grossedentata, is provided with inhibitory effect on caspase-8. Caspase-8 is the central component of apoptosis, so to its inhibition not only means prolonging cells life, but also enhances skin activity.
- 2) Dihydromyricetin can scavenge free radicals, inhibit collagenase and inhibit nitrogen oxide production, these show the ability of inhibiting aging in many ways.
- 3) Dihydromyricetin is provided with proliferative effect on melanin, which can be used in conditioner products to slow down the formation of gray hair.
- 4) Dihydromyricetin can shrink and minimize the diameter of pores, this shows the effect of skin tightening.



As "International Cosmetic Ingredient Dictionary and Handbook" described, The INCN name of Dihydromyricetin also shows "ampelopsis grossedentata extract"





#### JOSEPHINe – AG Treatment Cream

Main active ingredient: lavender oil, sandalwood extract, rhodophyta extract, ampelopsis grossedentata extract, chlorophyta spp. extract, corn oil, glycine soja seed extract.

Moisturizing the skin, smoothing fine lines and encouraging skin renewal.



2



**Hada Labo – Whitening Face Wash 100g** 

Main active ingredient: arbutin, ampelopsis grossedentata extract.

- Deep Moisturizing
- Intensive Repair

DMY is an extract from natural plant ampelopsis
grossedentata, it is natural with antioxidation properties,
acting as skin conditioner in cosmetics.

- Double Whitening















#### **Facility Advantage**

- 1) Large workshop in high standard
- 2) International Quality System
- 3) Strict QC system to secure consistency of quality





#### **Marketing Channels**

- 1) Dietary supplement manufactories
- 2) Cosmetics manufactories
- 3) Feed additive manufactories





#### **Promotional Strategies**

- 1) Marketing concept: Green, Safe, 100% Natural, Environmental.
- 2) Function Promotion
- 3) Local market analysis



#### Facility Advantage - Large workshop of high quality standard









#### **R&D CAPABILITY**

#### **ISOLATION & PURIFICATION TECH**









#### **R&D CAPABILITY**

#### **QUALITY ANALYSIS & CONTROL**













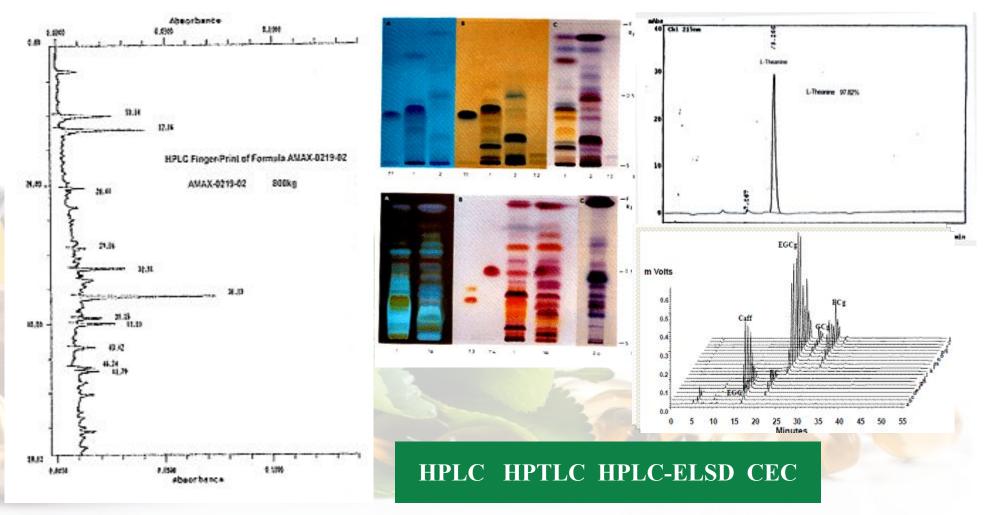


#### Facility Advantage - International Quality System





#### Facility Advantage - Strict QC system to secure consistency of quality





Studies have shown that a metal complex DMY use as feed additive, the DMY metal complex added to livestock feed as a feed additive, can promote livestock growth, improving meat quality, improving the hardness of the shell, to promote milk production, reduce the use of antibiotics, health and environmental protection. All of this prove that DMY has a positive effect on animal nutrition.





#### **Promotional Strategies - Local market analysis**



According to local market characteristics, population distribution, economic incomes and consumption customs, make plan of demands from different regions and different consumers, and estimate the sales life cycle and marketable time of the product.



