

Rediscovery of the myrrh

Myrrh Product Introduction



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INDEX

1. Recommendation
2. Introduction
3. Goods description
4. Story of the myrrh

Appendix

- Various certificates

About Myrrh

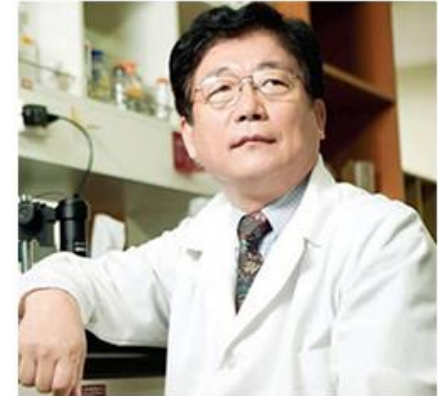
Myrrh, along with frankincense, has a long history dating back thousands of years. This herb is best known through the story of the Three Wise Men in Bible, “And they came into the house and saw the Child with Mary His mother, and they fell down and worshipped Him, and opening their treasures they presented to Him: gifts of gold, frankincense and myrrh (Mat. 2:11). Myrrh was also used to anoint Jesus’s body after crucifixion.

Myrrh has had spiritual significance since the ancient times. Often used in incense and ancient rituals, it was considered one of the most effective remedies for pain, traumatic injuries and oral diseases, due to its antiseptic and anti-inflammatory properties.

Myrrh oil is still commonly used today as a remedy for a variety of ailments. Researchers have become interested in myrrh due to its potent antioxidant activity and potential as a cancer treatment. In particular, 'guggulsterone', which is one of the components of myrrh, triggers early immune response even before antibodies are made to defend against the pathogen. Myrrh is currently being investigated as a potential treatment for cancer in many leading universities. However more research is required to understand its exact mechanism.

In addition, analgesic and anti-inflammatory properties of myrrh has shown greater benefit compared to other type of compounds, such as steroids, as there is a risk of adverse reaction to steroids with long-term usage.

Various research and drug development is in progress, and it is our aim to provide you with the information about myrrh and its health benefit.



Prof. Ga-Jin Geong

A new period of the oriental medicine "Rediscovery of myrrh"

Rediscovery of myrrh



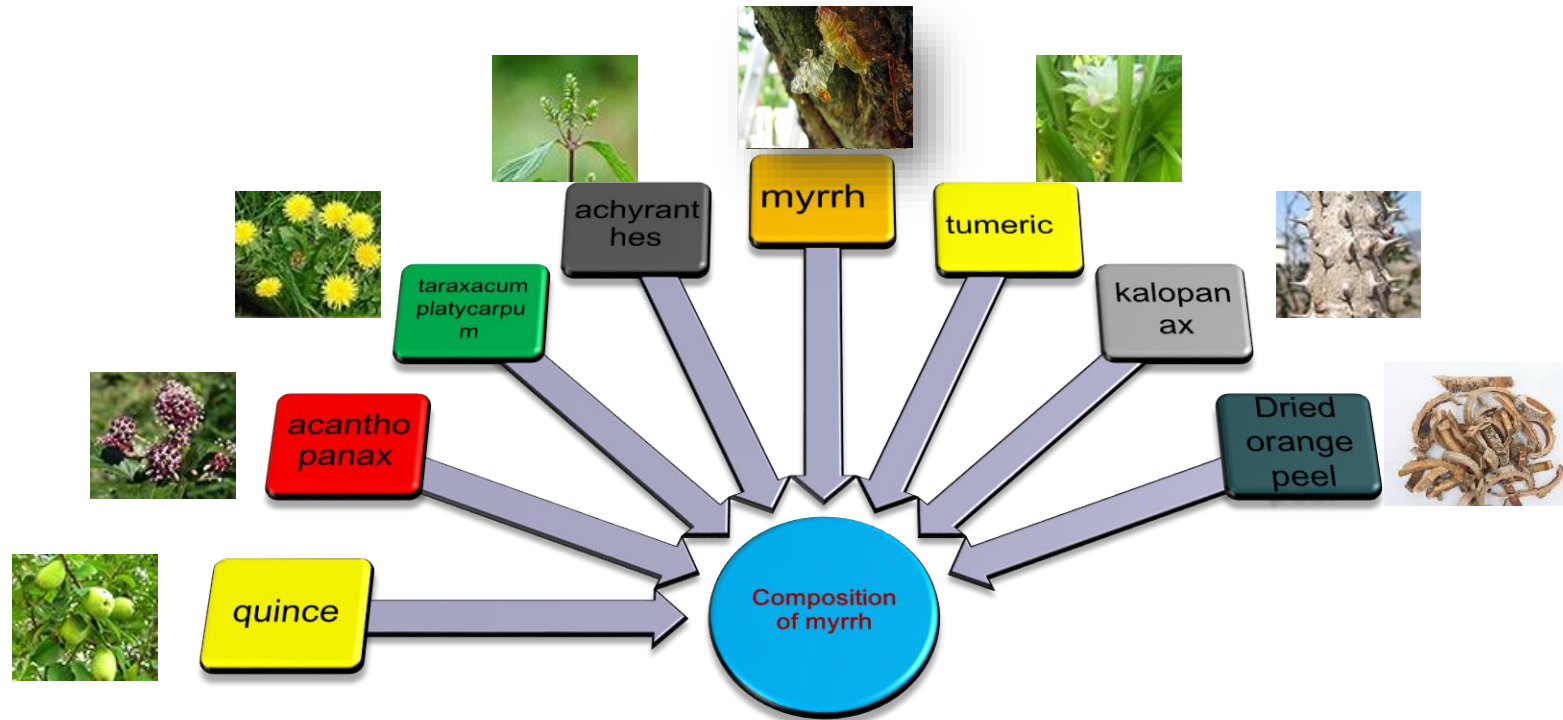
Myrrhzone Molyac Institute Co., Ltd. has extracted composition of myrrh (myrrh mixed with other 7 traditional medicines) as powder, fermentation and liquid, and has produced various products such as medicine, food, massage gel, toothpaste and detergent. These products are made by maximizing the effectiveness of anti-inflammatory pain relief and antibacterial properties.

Our company is the first myrrh research corporate & laboratory in Korea, currently holding two patents

Technology of extraction and combination - registration of two patents

Composition of myrrh

Mixes 7 traditional medicines/herb with myrrh to maximize the effectiveness of myrrh. (Myrrh, Tumeric(姜黄), Kalopanax, Dried orange peel, Quince, Acanthopanax, Taraxacum Platycarpum, Achyrantes)



Development overview and background

Development overview

Combination of myrrh and extracts from other traditional medicines, guggulsterone is extracted for development of natural anti-inflammatory pain reliever which has no side effects. Aims to strengthen public health, it is made to be consumable by anyone regardless of age and gender. With its preservative function and antibacterial properties, it is used as ingredients in cosmetics and hygiene products to enhance skin and dental health.

Development background

Anti-inflammatory pain reliever can be divided into two categories; steroidal and non-steroidal.

- 1) Steroids have an intense and immediate effect that suppresses inflammation, but the effects are temporary. If the steroids effects fall, inflammation reoccurs. If steroid use involves high doses and its prolonged, it may affect the kidneys, and an increase in the number of side effects may occur. It can also be addictive.
- 2) For this reason, many research studies have been conducted for developing non-steroidal types, and the products such as aspirin, ibuprofen, indometacin, naproxen have been commercialized. However, side effects and allergy may still occur in some patients. Substances derived from plants generally have fewer side effects and are relatively safer. Myrrh is typically used to extract guggulsterone. It has proven its effectiveness in Donguibogam. It contains evidence of treating various diseases. With the development of modern medicine, synthetic drugs and antibiotics, the importance of plants as raw material for drugs decreased considerably. Research on myrrh is extremely rare and uses are also limited. However, our company has managed to maximize the effectiveness of inflammatory pain relief properties of myrrh without any side effects by mixing the extracts of macerating and digesting traditional medicines such as hyssop, dandelion(*taraxacum platycarpum*), tuckahoe and quince. It is extracted as powder, fermentation and liquid, which can easily be adapted in any field.



Product Name

SPEED GEL Massage Cream

Merits

Fresh type, massage cream type (100g)
Basic cosmetics certified, contains composition of myrrh

Material & ingredients

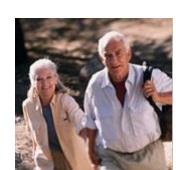
Main Ingredient : Commiphora Abyssinica Extract, Achyranthes Japonica Extract, Taraxacum Officinale Extract, Poria Cocos Extract, Chaenomeles Sinensis Fruit Extract, Safflower Extract Frankincense, Carbomer, Menthol, Propolis, Glucosamine, Peppermint, Propylene Glycol, P-hydroxybenzo, Ethanol, Water

Usage

Apply on the surface (shoulder, waist, knee, ankle, wrist) and rub gently.
Topical analgesic anti-inflammatory medication.

	Description
Features	<p>Massage Cream with composition of myrrh. The scent of menthol neutralizes the scent of myrrh, and the scent dissipates gradually. It is well absorbed into the skin & muscle, producing rapid results. Minimized skin irritation.</p> <p>Contents of myrrh composition (patented material) are maximized to produce optimal results when used regularly, it has been developed to target the source of pain in muscle and joints.</p>

Recognized in oriental hospital, 'Speed Gel Massage Cream' proves the efficacy, odynolysis and anti-inflammatory effect of myrrh which relaxes the muscle fatigue of knee, shoulder, neck and waist. It is used among not only dancers and athletes, but also golfers, musicians, mountaineers, drivers, examinee, office workers, delivery and various service workers, soldiers, trainee, and construction workers. It is effective in dealing with arthralgia, myalgia, neuralgia, backache, stiff shoulder, itching, insect bites, headache and bruises as well.





Product Name

Magi Myrrh Toothpaste

Merits

No synthetic surfactant, non-foaming (200g)
Sold in pharmacy only, hygiene products, containing composition of myrrh

Material & ingredients

Main Ingredient : Slicon Dioxide, Sodium Monofluorophosphate, Aminocaproic Acid, Aluminum Chlorohydroxy Allantoinate
Supplementary Material : Commiphora Abyssinica Resin Extract, Achyranthis Radix Extract, Taraxacum Officinale Extract, Poria Cocos Extract, Chaenomeles Sinensis Fruit Extract)

Usage

KFDA (Korea Food and Drug Administration) approved – gum disease, periodontitis, prevention of cavities, removal of plaque, removal of bad breath

As Molyac (scientific name: myrrh) is the substance used for mouth ulcer and gum inflammation since long ago, it has been considered a very precious treasure in Middle East and Medieval European region. The ingredient also appears dozens of times in Donguibogam of Heo Jun and the bible. It was discovered that guggulsterone was the acting ingredient for its efficacy in gum diseases, prevention of cavities, removal of dental plaque and bad breath. The newly released, “The Magi myrrh toothpaste” contains 30,000mg of patented composition of myrrh. It is effective in preventing gingivitis, periodontitis, and periodontal disease.

Best result can be obtained when used everyday in the morning and in the evening. No synthetic surfactant, allowing taste buds to perceive flavors after brushing teeth. Non-foaming.

이런분께 권합니다!!

- ✓ 잇몸질환을 앓고 계신분
- ✓ 치주염, 충치로 인해 피가 나는 분
- ✓ 입안 구취가 심해 고생하시는 분

※ 합성계면활성제를 넣지 않아 커피나 주스 고유의 맛이 변하지 않습니다.



Product Name

Merits

Material & ingredients

Usage

LAPIS EM-CA GOLD

The combination of calcium and myrrh produces synergism to maximize pharmacological efficacy.

Functional Materials: Shell Calcium (calcium content)
Subsidiary materials: myrrh 36%, achyranthes root(leaves, roots) 20%, dandelion(whole) 12%, turmeric (root) 12%, kalopanax (shell) 8%, five leaf aralia (branches, bark) 6%, dermis(tangerine peel) 3% (mixing proportion 74.8%), quince (fruit) 3%, fish collagen disassemble extract 1% etc

Approved by the KFDA

- Improves the formation of bones and teeth
- Reduces the risk of osteoporosis
- Maintains nerve and muscle function
- Promotes normal blood clotting process

「Myrrh」 Guggulsterone can be viewed as natural steroids commonly used in western medicine. Steroids is known as a panacea in western medicine. Steroids works effectively. If you inject steroids constantly, even severe inflammation subsides temporarily. However, when steroids wear off, inflammation reoccurs. This is particularly serious among patients suffering from atopic dermatitis. During steroid administration, the symptom subsides. However, it reappears if the treatment stops. Eventually, patients can get addicted to steroids. Steroid addiction is a major problem that can lead to serious consequences. Prolonged heavy use of steroids can lead to kidney and liver damage, and can lead to other serious complications, such as osteoporosis and cancer.

Myrrh is the substance that can replace steroids. We have investigated the effects of myrrh in patients with cancer. These patients refused to take Chinese medicine, so we provided them with Lapis myrrh. A month later, there was a noticeable improvement in their condition. We recommended them to continue taking, as there is a greater benefit with regular dose.

The composition of myrrh can reduce blood extravasation and relieves inflammatory pain. It is also good for diabetes.



물과 마음이 함께 치유되는
꽃마을경주한방병원

The medical director, Kim Dong-Ryul



- ✓ What is the myrrh?
- ✓ Myrrh story in the bible
- ✓ Donguibogam of Heo Jun and myrrh

About Myrrh

Hebrew name is mor and greek name is murra. The origin comes from 'mur' of arabic language, meaning 'very bitter'. The plant is native to Northern Africa and the Middle East, particularly in Somalia, Ethiopia, Arabia, and Yemen, and grow in the rocky or foothills of limestone. This tree prefers desert regions.

Myrrh is a shrub-like tree that reaches only about nine feet in height. This tree has a thick, light grey trunk with sharp spines protruding from its main branches. The serrated-edged leaves grow in groups of three consisting of two small, oval leaves and one larger leaf. Yellowish-red flowers hang in elongated, branching clusters, accompanied by small brown oval fruits.

It is the bitter tasting rubber sap that is used as herbal medicine. The sap secretes naturally from the bark of the tree and becomes a resin (Myrrh) when it solidifies. The resin can be distilled (approximately 3~10% are extracted) to extract an essential oil, pulverized into a powder which can be used in tablets and capsules, or dissolved in ethanol to make tincture.

Myrrh has a unique sweet and smoky aroma, that are then used to make myrrh oil. Myrrh oil has a golden yellow or brownish color, and a rich, smoky and balsamic aroma.



About Myrrh

Ancient Myrrh

Modern myrrh has long been commented on as coming from a different source to that held in high regard by the ancients, having been superior in some way. Pedanius Dioscorides described the myrrh of the first century AD as most likely to refer to a "species of mimosa", describing it "like the Egyptian thorn". His description of its appearance and leaf structure as "pinnate-winged". The ancient type of myrrh conjectured was noted for possessing a far more delightful odor than the modern. It was noted in 1837 that "The time, perhaps, is not far distant, when, through the spirit of research, the true myrrh-tree will be found".



Western Medicine

In pharmacy, myrrh is used as an antiseptic in mouthwashes, gargles, and toothpastes for prevention and treatment of gum disease. Myrrh is currently used in some liniments and healing salves that may be applied to abrasions and other minor skin ailments. Myrrh has also been recommended as an analgesic for toothaches, and can be used in liniment for bruises, aches, and sprains. Myrrh is a common ingredient of tooth powders. Myrrh and borax in tincture can be used as a mouth-wash. A compound tincture, or horse tincture, using myrrh is used in veterinary practice for healing wounds. Meetiga, the trade-name of Arabian Myrrh, is more brittle and gummy than that of the Somalian variety and does not have the latter's white markings. Liquid Myrrh, or Stacte, spoken of by Pliny, also an ingredient of Jewish holy incense, was formerly obtainable and greatly valued but cannot now be identified in today markets. Myrrh gum is used for indigestion, ulcers, colds, cough, asthma, lung congestion, arthritis pain, and cancer. As part of a larger search for anticancer compounds from plants, the researchers obtained extracts from a particular species of myrrh plant (*Commiphora myrrha*) and tested it against a human breast tumor cell line (MCF-7) known to be resistant to anticancer drugs. Research data indicated that the extract killed all of the cancer cells in laboratory dishes.

Features of Molyac(myrrh)

Recently, several major effects in modern science was found.

Myrrh is dried from myrrh tree of *Canarium album* Raeusch or resin of plant of myrrh tree, and has a bitter taste. It stimulates blood circulation, removes extravasated blood, reduces swelling, stops pain and granulation. Medicinal experiments have demonstrated antibacterial properties, reduction of blood cholesterol and bronchial secretions inhibition.

Guggulsterone, ingredient of myrrh strengthens fundamental defence mechanism of host by protecting the host from pathogenic organism. Toll-like receptor, which plays a key role in innate immune system, is mediated by this substance, triggering early immune response even before antibodies are made to defend against pathogens.

Reduces blood extravasation and relieves pain. It is particularly beneficial for joints, and its antibacterial properties help reduce inflammation. It has an excellent detoxification property, eliminating waste products from the body. Myrrh has been used to treat oral infection and inflammation. Myrrh-containing mouthwash and toothpaste are very effective against oral diseases.



History and origin of Molyac(myrrh)



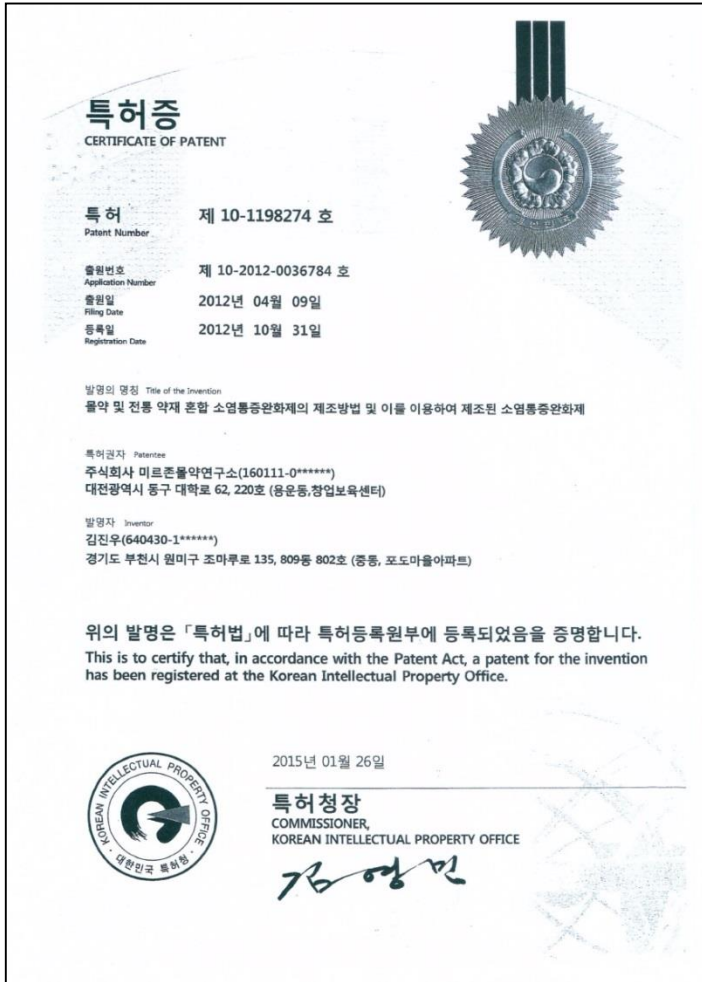
Myrrh has had spiritual significance since ancient times. Matthew 2:9~11 says "After they had heard the king, they went on their way, and the star they had seen when it rose went ahead of them until it stopped over the place where the child was. When they saw the star, they were overjoyed. On coming to the house, they saw the child with his mother Mary, and they bowed down and worshiped him. Then they opened their treasures and presented him with gifts of gold, frankincense and myrrh".

Also **Exodus 30:23~25** says "Take the finest spices: of liquid myrrh 500 shekels, and of sweet-smelling cinnamon half as much, that is, 250, and 250 of aromatic cane, and 500 of cassia, according to the shekel of the sanctuary, and a hin of olive oil. And you shall make of these a sacred anointing oil blended as by the perfumer; it shall be a holy anointing oil".

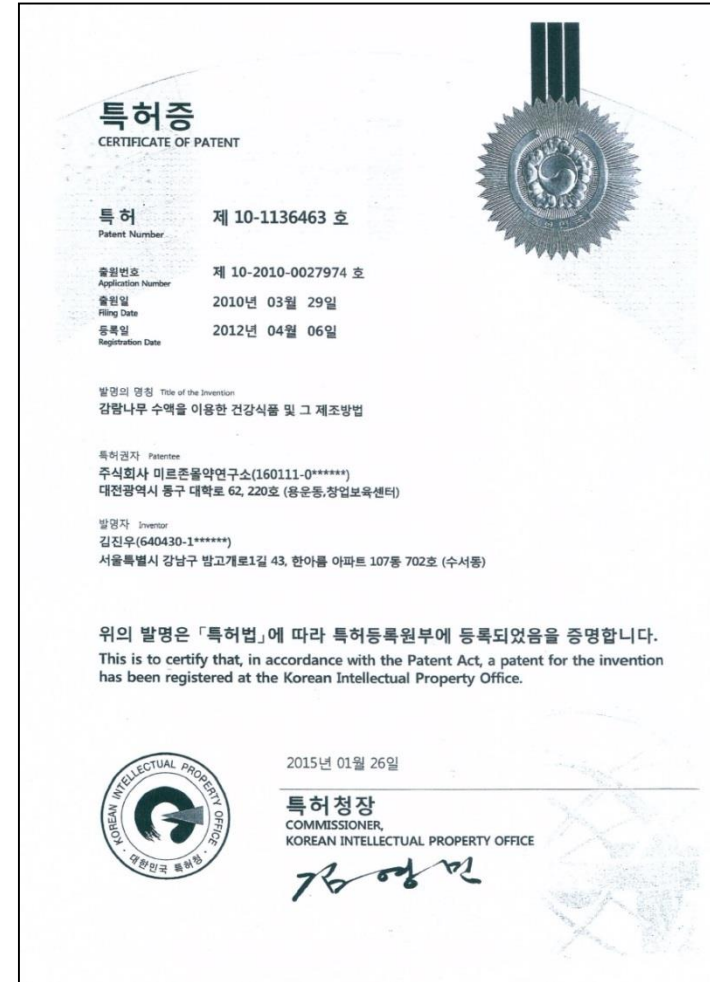


The drinking of wine in Roman society has a long history. According to an old tradition, respected women of Jerusalem provided a narcotic drink to those condemned to death in order to decrease their sensitivity to the excruciating pain. When Jesus was crucified, wine mixed with myrrh was offered, but he refused it, choosing to endure with full consciousness the sufferings appointed for him.

Myrrh has been used for thousands of years in ancient healing therapies and religious ceremonies. It was also one of the most precious and costly gifts to present to. When the scarcity of myrrh was high, the spice was more valuable than gold and was used for making perfume, incense, medicine, and for anointing the dead.



Anti-inflammatory pain reliever
Manufacturing method of anti-inflammatory pain reliever of myrrh & mixed traditional medicine



Health food and manufacturing method of using an olive tree sap

Invention patent registration summary of Molyac(myrrh)

【Summary】

This invention mixes myrrh with traditional medicine and enhances anti-inflammatory effect each medicine has to restrain general inflammation or prevent the occurrence of inflammation. Generally myrrh has been known to have the anti-inflammatory effect since long before. However, due to influence of India's traditional medicine, substances obtained from olive tree of different tree species are used worldwide. Currently, The foremost medical schools in Korea devote themselves to develop anti-cancer drug with an ingredient extracted from myrrh known as **Guggulsterone**.

Steroids have an intense and immediate effect that suppresses inflammation, but the effects are temporary. Prolonged use of steroids can lead to severe side effects, and therefore research has been **seeking to develop non-steroidal inflammatory drug** worldwide. We provide anti-inflammatory drug with no side effects by using myrrh, which has been around a long time in history, with traditional medicine to manage inflammatory responses in advance.

【Chart】

Chart 3& 5

【Index】

Myrrh, guggulsterone, achyranthes, taraxacum platycarpum, quince, non-steroidal anti-inflammatory drugs

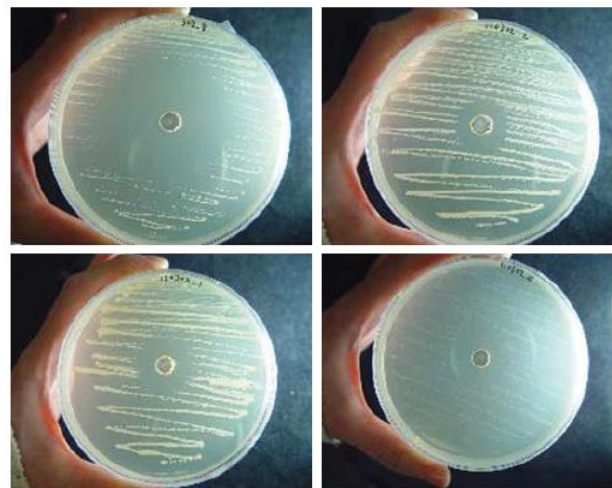
【Name of invention】

Anti-inflammatory and manufacture method using myrrh and traditional medicine

{An Anti-inflammatory drug based on the myrrh extract and several other Korean traditional herbs, and preparation method thereof}

【Chart 5】 separated bacteria from periodontitis patient. The growth is inhibited by traditional myrrh.

We separated the bacteria assumed as the causative bacteria from periodontitis patient and investigated the inhibition of growth with traditional myrrh. One strain(top left, the most inhibited) was verified as *Rothia dentocariosa* but the other three number of strain were not identified.



THANK YOU

