

## Bisalen Shampoo 500ml.

Ginger plant with the scientific name of «Zingiber officinale» and common name of «Ginger» has a long history in the Iranian, Chinese and Indian traditional medicine, also in the modern herbal medicine several compounds of it have been made because of its therapeutic effects. «Know.Tech.Pharm.» Pharmaceutical. Co., specialized in formulation and production of herbal medicine, by using the effective ingredients in the rhizoma of Ginger, first formulated and produced the herbal ointment named « Bisalen». Due to the good effects of this ointment in relieving skeletal and muscle pains, a washing form with anti-inflammatory pain effects was designed, thus « Bisalen Shampoo» was formulated and produced.

### Important effective components:

The rhizoma of Ginger plant contains 1-4% of volatile oils and oleoresin, and the most important components of its essence are Zingiberene, Curcumene and Beta-bisabolene.

The other important ingredients are Gingerol and Shogaol.

### Indications:

A shampoo for washing hair and body and effective in treatment of:

-Joints and muscles pain, comprising: rheumatic pains, arthritis, waist and neck disk pains, all types of inflammatory pains of joints, bones and muscles and the pains after hard activities and sport.

-preventing hair fall and scalp scaling

Notation: This shampoo is natural and compatible with all types of skin, also usable for healthy people in daily washing.

### Dosage and administration:

-For relieving pain: rub a sufficient quantity of the shampoo on the desired part of the wet skin and massage that part softly for 2-3 minutes, then rinse the skin with enough water.

-In preventing hair fall and scalp scaling: first wet the hair then rub the desired part of the hair with a sufficient quantity of the shampoo and massage it, after 1-2 minutes rinse the hair with enough water.

In normal daily washing, healthy people can use this shampoo. In this case it's not necessary to let the shampoo stay on the skin and it can be rinsed promptly.

### Side effects:

In topical use no side effect has been reported.

People who have allergy to ginger should not use this medicinal shampoo. In the case of any possible sensitivity, stop using the shampoo.

### Drug Interactions:

No interaction with other drugs has been reported when using ginger components topically.

### Use during pregnancy and breast-feeding:

Using this medicinal shampoo topically, during pregnancy and breast-feeding is permitted.

### Storage condition:

-Keep the medicinal shampoo in the temperature of 4-25 centigrade degrees.

-Preserve the shampoo from freezing and low or high temperatures.

### Packaging:

Bisalen medicinal shampoo is presented in bottles of 500ml., placed in a box including an instruction leaflet.

### Remarkable points:

- In addition to the therapeutic effects of this medicinal shampoo, it has a good washing capability. This shampoo is not just for patients, healthy people can also use it for daily washing and the only difference is the way of usage and there is no need to keep the shampoo on any spot of the body.
- The way of using this medicinal shampoo is topical and it should not be used on wounds.
- Shake the bottle softly one or two times before using. Don't shake the bottle intensively.
- Avoid this medicinal shampoo from eye contact.
- Keep the shampoo out of the reach of children.

The name of «Bisalen» is derived from one of its main ingredients named « Beta-bisabolene».

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### Specialized info:

The most important effective components of the Ginger rhizoma are as follows:

- Volatile oils (1-4%) which the most important ones are: Zingiberene, Curcumene, Beta-bisabolene and Geranial.
- Aryl alkanes such as Gingerol and Shogaol

Most of the studies have focused on Gingerol and Shogaol and it's indicated that these two compounds decrease the gathering of prostaglandines (particularly PGE2) and leukotrienes by inhibiting cyclooxygenase2 and lipoxygenase, therefore they result in anti-inflammatory effects.

The NSAIDs used for decreasing inflammation and relieving inflammatory pains, inhibit the both enzymes cyclooxygenases 1 and 2. Considering that cyclooxygenase1 always exists in all the tissues, and cyclooxygenase2 is created during inflammation, so inhibiting both of the enzymes causes some side effects which are seen after using NSAIDs. Therefore, the selective inhibitor cyclooxygenase2 is a suitable choice with anti-inflammatory pain effects. According to a study published in NIH, the main components extracted from the Ginger rhizoma such as Gingerol and Shogaol, show a good anti-inflammation effect at the point of pain by the selective inhibition of cyclooxygenase2, without creating the side effects caused by the nonselective inhibition of cyclooxygenase1.

When using topically, the Ginger compounds (such as Gingerol and Shogaol) have a good skin penetration because of their suitable molecular weight and size ( less than 300 daltons) and medium solubility in water and oil. In Bisalen shampoo, due to the good and qualified formulation the Ginger compounds are well absorbed by the skin, therefore the anti-inflammatory pain effects reveal a short time after washing. Some other ingredients extracted from Ginger rhizoma also help its anti-inflammatory pain effects by different mechanisms.

In addition to the items mentioned above, the effective components of Ginger improve blood circulation in the scalp, stimulate the growth of hair follicles therefore prevent hair loss and increase hair growth, and remove dandruff by anti-scaling effects.

-In this medicinal shampoo, in addition to the main components extracted from Ginger rhizoma, the effective components of German Chamomile with the scientific name «Matricaria recutita» and the common name « German Chamomile» are used for decreasing dermal sensitivity.

For any more info, you can refer to the site of our company: [www.ktp.co.ir](http://www.ktp.co.ir) or send your message to our email: [info@ktp.co.ir](mailto:info@ktp.co.ir)

## References:

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Components of the product: Effective components of Ginger and German Chamomile, Betaine, SLS, Disodium cocoampho diacetate, Coco-glucoside, Glycerin, Citric acid, Methyl paraben ,PEG and EDTA

Know.Tech.Phar is a knowledge based company, specialized in formulation and production of herbal medicine, located in Tehran University Science and Technology Park.