



Broncafect Phytosynergist® M4410

Broncafect Phytosynergist®: Immune Supporting Cough Liquid

Broncafect Phytosynergist® is a unique combination of Echinacea root, Licorice root, Pleurisy Root, Thyme leaf, Ginger rhizome and White Horehound herb.*

Healthy movement in the respiratory tract

The respiratory tract is kept moist by a layer of mucus that coats the entire surface. It needs to be kept moist, particularly lower in the tract, to allow the exchange of oxygen and carbon dioxide. Mucus is produced by special cells in the mucous membranes. The mucus also traps small particles from the inhaled air, keeping them from reaching further into the lungs. The mucus itself is removed from the passages by the whiplike movement of the cilia (hair-like structures on the cells lining the airways), towards the throat. (The mucus and the entrapped particles are either swallowed or coughed to the exterior.) This normal, healthy, self-cleansing process is also called the mucociliary escalator. The expelled mucus is also called sputum. Coughing is a normal protective reflex that rapidly expels sputum from the larger bronchial tubes.^{1-3*}

How Broncafect Phytosynergist® Keeps You Healthy

Supports the body's natural ability to break up respiratory secretions, encourages healthy removal of mucus from the respiratory tract

Pleurisy Root, White Horehound, Licorice, Thyme and Ginger have all been used traditionally to support healthy bronchial function, thereby helping the body to expel mucus and foreign particles from the bronchial tubes more easily.^{3,4} White Horehound in particular, may do this by helping to soften and break up the mucus.^{4*}

Supports the body's normal cough reflex and promotes healthy throat tissue

The pungent, warming nature of Ginger supports the normal cough reflex, providing comfort during cold weather and seasonal changes. Ginger is thought to assist in this way by promoting blood circulation, thereby promoting healthy blood flow in the mucosal tissues of the lung.^{3,5} Pleurisy Root is often traditionally combined with Ginger for this purpose, and these herbs may also assist the body in maintaining normal body temperature.^{3,4*}

Due to their action on bronchial function, Pleurisy Root, White Horehound, Licorice, Thyme and Ginger would also support the body's normal cough reflex,³ particularly Licorice with documented use dating back centuries.⁶ Native Americans used Pleurisy Root, White Horehound and Echinacea root in this way.^{7*}

Supplement Facts

Serving size:	5 mL	
Servings per container:	40	
Amount per Serving		%DV
Calories	15	
Echinacea root 1:2 extract from <i>Echinacea angustifolia</i> root 500 mg	1.00 mL	†
Licorice root 1:1 extract from <i>Glycyrrhiza glabra</i> root 1.0 g	1.00 mL	†
Pleurisy root 1:2 extract from <i>Asclepias tuberosa</i> root 500 mg	1.00 mL	†
Thyme leaf 1:2 extract from <i>Thymus vulgaris</i> leaf 500 mg	1.00 mL	†
Ginger rhizome 1:2 extract from <i>Zingiber officinale</i> rhizome 250 mg	500 mL	†
White Horehound herb 1:2 extract from <i>Marrubium vulgare</i> herb 250 mg	500 mL	†

† Daily Value (DV) not established.

Other ingredients: Purified water, dextrin and 48.5% alcohol.

Caution: Contraindicated in high blood pressure, edema (water retention), congestive heart failure, low blood potassium, pregnancy and lactation. Contraindicated in known allergy to plants of the daisy family.

Product No	Content
M4410	200 mL

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A Phytotherapist's Passion

"Philosopher and teacher Rudolf Steiner once said that, for every human illness, somewhere in the world there exists a plant which is the cure. I believe that there is a healing potential locked inside plants which is integral with their evolution, just as it is part of human evolution to learn to tap this wonderful gift of Nature."

Associate Professor Kerry Bone
MediHerb Co-Founder and
Director of Research and Development

* These statements have not been evaluated by the Food & Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

Licorice and Thyme have been used extensively in liquid cough mixtures, with Licorice providing a soothing action.^{8,9*}

Echinacea angustifolia root, Thyme and Ginger have been used traditionally to promote healthy throat tissue.^{4,10,11} The soothing action of Licorice would also be beneficial in this application.^{6*}

Assists the body's immune response

Native Americans used *Echinacea angustifolia* root to support the immune system.⁷ In the late 19th Century, natural clinicians in the United States noted that "when chewed the root, if of good quality, imparts a persistent tingling sensation"¹². We now know that this tingling sensation is caused by the presence of the plant constituents called alkylamides (pronounced al-kyl-a-mydes). Clinical research conducted by international groups strongly suggests that the alkylamides are very important for the immune system effects of Echinacea. They may do this because they are able to interact with certain immune receptors^{13,14} ("switching on" the tissues resulting in a healthy immune response). A practical effect is that top quality Echinacea root helps the immune response following sudden changes in weather.*

What Makes Broncafect Phytosynergist® Unique

Broncafect Phytosynergist® is unique in the professional herbal products industry because:

- Top quality organically grown Thyme and wildcrafted Pleurisy Root and White Horehound are used in the manufacture of this formulation
- It contains the root of one of the most important Echinacea species (*Echinacea angustifolia*)
- MediHerb has worked with Echinacea growers to help produce superior quality plants (to ensure high levels of the tingling plant constituents)
- MediHerb helped develop some of the chemical analyses used to regularly test the quantity of alkylamides in Echinacea raw materials
- MediHerb tests other raw materials for the quantity of:
 - glycyrrhizin in Licorice
 - pungent principles (gingerols, shogaols) in Ginger
 - essential oil and total phenols (as thymol and carvacrol) in Thyme
- MediHerb tests the level of pesticides in Echinacea raw material
- MediHerb supports ongoing research and is involved in clinical trials to investigate the effects of Echinacea on the body

Unique Manufacture & Analytical Testing

Quality and safety ensured

- Manufactured in Australia to the high standards of international pharmaceutical Good Manufacturing Practice
- Raw materials and finished product are subjected to tough quality standards, including use of the latest and most relevant chemical analysis methods
- Unique extraction method using cold percolation for the Echinacea, Pleurisy Root, Thyme, Ginger and White Horehound components of this formulation (this protects the delicate plant constituents, ensuring a full range of constituents)

References

¹ Guyton AC, Hall JE. *Textbook of Medical Physiology*, 10th Edn. W.B. Saunders, Philadelphia, 2000. ² Munson PL, Mueller RA, Breese GR (eds). *Principles of Pharmacology: Basic Concepts and Clinical Applications*. New York: Chapman & Hall, 1995. ³ Mills S. *The Dictionary of Modern Herbalism*. Thorsons, London, 1989. ⁴ *British Herbal Pharmacopoeia*. BHMA, Bournemouth, 1983. ⁵ Mills SY. *The Essential Book of Herbal Medicine*. Penguin Arkana (Penguin), London, 1991. ⁶ Fiore C, Calo LA, Ragazzi E et al. *J Nephrol* 2004; **17**(2): 337-341 ⁷ Moerman DE. *Native American Ethnobotany*. Timber Press, Portland, 1998. ⁸ Weiss RF. *Herbal Medicine*, translated by Meuss AR from the 6th German Edition of *Lehrbuch der Phytotherapie*. Gothenburg, AB Arcanum, Sweden, 1988. ⁹ Grieve M. *A Modern Herbal*. First published 1931, reprinted Dover Publications, New York, 1971. ¹⁰ Shemluck M. *J Ethnopharmacol* 1982; **5**(3): 303-358 ¹¹ World Health Organization. *Medicinal Plants in Viet Nam*. WHO Regional Office for the Western Pacific, Manila, 1990. ¹² Felter HW, Lloyd JU. *King's American Dispensatory*. 18th Edn, 3rd revision. First published 1905, reprinted Eclectic Medical Publications, Portland, 1983. ¹³ Agnew LL, Guffogg SP, Matthias A et al. *J Clin Pharm Ther* 2005; **30**(4): 363-369 ¹⁴ Woelkart K, Xu W, Pei Y et al. *Planta Med* 2005; **71**(8): 701-705



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Quality is our Passion

MediHerb products are developed by experts and leaders in the field of herbal therapy, using scientific evidence and hundreds of years of traditional knowledge.

Kerry Bone and over 20 health care professionals work within MediHerb while still managing their own clinical practices, plus we consult with an advisory board of health care professionals from around the world.

Our products are made using only the highest quality ingredients which are extensively tested for purity and potency. The MediHerb manufacturing plant operates to a strictly regulated pharmaceutical standard and is regularly audited by the Therapeutic Goods Administration (similar to the FDA), the same body that audits conventional pharmaceutical manufacturing facilities. The comprehensive regulations in Australia mean that you receive a safe and effective product that has been manufactured to pharmaceutical standards.

We know from our experience as health care professionals that the quality of a product you take makes a huge difference to the health outcome you experience. We dedicate ourselves to researching and making the best possible products to deliver health solutions that work.



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