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Mushroom extracts and Mushroom powders

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# Coriolus Versicolor mushroom research: PSP, PSK

When studied with modern clinical science, many medicinal mushrooms used in traditional Asian remedies have been found to possess powerful biological compounds.

Coriolus Versicolor (Trametes Versicolor) has been one of the most thoroughly researched mushrooms and is the subject of the most long-term human studies, particularly in the area of anti-cancer research.

# PSP-scientifically proven extract from Coriolus

Known as the "Turkey Tail" in North America, Coriolus is found in the wooded temperate zones of the Northern Hemisphere. In Japan, it is called "Kawaratake" and in China, where it has been used in traditional remedies as a medicinal mushroom for liver, respiratory and immune system conditions, it is known as "Cloud Mushroom".

A number of chemically distinct extracts are produced from Coriolus, including PSP, a Polysaccharide-Peptide, and PSK, a protein-bound polysaccharide.

These immune stimulating compounds act as "biological response modifiers," making them the world's best-selling drugs for cancer therapy.

In the 1980's, Chinese researchers isolated PSP from the mycelia of a different strain of Coriolus: the Coriolus Cov-1 strain.



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It is chemically similar to PSK, but differs from PSK in its strain and has a different monosaccharide composition and molecular weight.

With over 480 double-blind clinical studies, PSP has been proven to have potent immune stimulating and anti-tumour capacities, at a total effective rate over

Fruitbodies Extract

# PSP vs. PSK (table 1) Terms PSP PSK Terms PSP Out to 10 PSP PSK Terms PSP

extract,

Strain COV-1 CM-101 U.V. spectrum Max. abs. Max. abs at 420, 487 nm at 486, 671 nm Material Liquid Fermented I.R. spectrum Obvious abs. No obvious cultured mycelia at 1,380 nm abs. at 1,380 nm mycelia 30%-45% Extraction Hot water Hot water Polysaccharides 30%-35%

method

	precipitated with ethanol	precipitated with (NH4) 2SO4	Mono- saccharide	Galactose + Mannose Xylose Arabinose	Galactose - Mannose Xylose Arabinose
Mono- saccharide	Galactose Mannose Xylose Arabinose +	Galactose Mannose Xylose Arabinose -		Rhamnose Glucose Fucose	Rhamnose Glucose Fucose
	Rhamnose + Glucose + Fucose -	Rhamnose - Glucose - Fucose +	Clinical studies	Anti-cancer and immune stimulation	Hepatitis B and immune stimulation
Glucans	a(1-4), b(1-3) and b(1-6)	, b(1-4), b(1-3), and b(1-6)	Although the polysaccharide portion of a fruit body-derived extract is similar to PSP, it has no peptides and is still not a PSP. Where there is polysaccharide there is polypeptide2.		
Molecular weight	100K Da.	94K Da.			

# Real PSP is never produced from fruitbodies

Published scientific studies of PSP have used only extracts derived from the mycelia stage of the mushroom lifecycle, not extracts from fruitbodies (mature mushrooms). The PSP extracted from mycelia is chemically different to extracts from the fruit body later in the mushroom lifecycle. There are differences in monosaccharide composition (PSP has Galactose, see table 2) and protein composition (PSP has peptides).

It is the chemical composition of PSP from mycelia that has been the subject of scientific research.

The only known process capable of producing the pure and potent Coriolus Versicolor mycelium needed as the raw material for research-quality PSP is to extract from mycelia produced through deep layer cultivation in pharmaceutical grade sterile production facilities.

# Always seek medical advice

Information provided on this website is provided for information purposes only and is not intended to replace advice from a qualified medical practitioner.

For information about medical conditions please consult your doctor.

# **Coriolus Versicolor original research**

As the leader in standardised mushroom extracts we believe passionately in sharing information from the growing body of published research on medicinal mushrooms. This is for education purposes only and MYCOPHARMA® cannot and does not vouch for the accuracy of independent research. To make your own informed decisions please refer to the original published research about Coriolus Versicolor.

1.YANG CY, KWOK CY, XU SJ, EDS. 1993 PSP INTERNATIONAL SYMPOSIUM ANTHOLOGY OF THESE AND ABSTRACTS. SHANGHAI: FUDAN UNIVERSITY PRESS; 1993.
2.JOHN E. SMITH ET AL, MEDICINAL MUSHROOMS: THEIR THERAPEUTIC PROPERTIES AND CURRENT MEDICAL USAGE WITH SPECIAL EMPHASIS ON CANCER TREATMENTS: EXTRACTION, DEVELOPMENT AND CHEMISTRY OF ANTI-CANCER COMPOUNDS FROM MEDICINAL MUSHROOMS, CHAPTER 5.



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