

OUR SCIENCE, YOUR SUCCESS

Powered by BIORESOURCE DATA MINING

TCI透過獨家的生物挖礦開發模組, 專利原料及產品配方皆可快速產出大量科學驗證數據支持

產品在廣告宣傳必需遵守各國法規

TCI uses BIORESOURCE DATA MINING in developing patent materials and product formula, to generate mass supportive scientific data.

The advertising of products must follow local regulations.

Key Ingredient





VeCollal type II

Vegan Collagen Alternative Type II

The world's only scientifically-based, non-GMO plant-based collagen formula, designed specifically for joint and bone health, with type II collagen amino acids.

Joint Cartilage Rejuvenation

Activation of Chondrocyte Type II Collagen Gene

Promotion of Chondrocyte Type II Collagen Secretion - Coming soon

Promotion of Chondrocyte Hyaluronic Acid Secretion - Coming soon

Bone Health and Anti-aging

Activation of Osteoblasts

Inhibition of Osteoclasts

Reducing Joint Inflammation and Degeneration

Inhibition of NO Inflammatory Factors Released by Joint Macrophages Lowering of Cartilage Inflammatory Factors IL-1 β , TNF- α , and iNOS



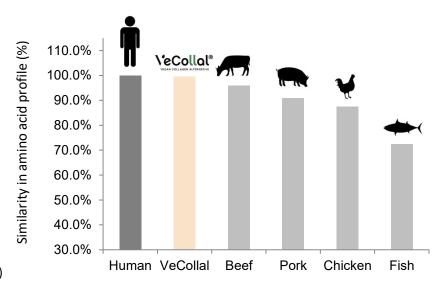
Biomimetic of human Collagen

VeCollal has an amino acid composition that mimics human collagen.

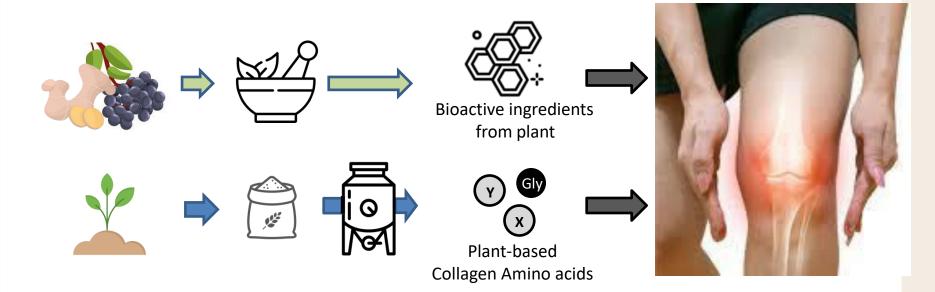
Type I collagen amino acid sequence analysis

	100															. :		-	-		-	206	•		•				216							
Human	159 A P Q L 5	SVGV	VDE	KST	r G G	1 1 6	182	P G	D M	GE	5	G P	D C	2 1	P G	PI	p G	Δ 1	9 G	D i														M G		220
Porcine	162 APQL																																			
Bavin	159 APQL																																			
Chicken	149 A P O M S																																			
Fish	151 S P O M S																																			
														-							-															
		232																																288		
Human	221; P P G P																																			
Porcine	223; P P G P																																			
Bovin	220; P P G P	PGK	NGD	DG	EAG	G K	PG	RP	GE	R	G P	PG	P	QG	A	RG	LI	G	TA	G	LF	PG	MI	K G	Н	RC	F	S	3 L	D	GA	AK	G	DA	46	28
Chicken	210; PAGP	PGK	NGD	DG	EAC	GK	PG	RP	GC	QR	G P	PG	P	QG	AI	RG	LI	PG	TA	G	LI	PG	MI	KG	н	RO	5 F	S	3 L	D	GA	AK	G	QF	0	27
Fish	212; P V G P	PGK	NGD	DG	EPO	G K	A G	RP	GE	R	G A	AG	P	QG	A	RG	F	G	TF	G	L	PG	L	K G	Н	RO	G F	S	3 L	D	GA	A K	G	DA	40	27
	200 000	294 2	000 200	200	200	201	500	201					516			10		2014		_	-		-		954		-	-	-			- 0.4				
Human	283, G P K G																																A	GP	3 6	34
Porcine	285, G P K G																																			
Bovin	282, G P K G																																			
Chicken	272, G P K G																																			
Fish	274, G P K G																																			
		ra non	700	360 36	-			an .	-20	252	271	276			on.	205			ner.	388	701		02	204			200	100	0	1000	40	_	400	400	-	
Human	345 F P G A 1	VGAL																						G	AI	0 6	0				SA	N	G	A P	G	40
Porcine	332 F P G A 1																																			
Bovin	344 F P G A 1																																			
Chicken	334 F P G A																																			
CHICKEH	336 F P G G																																			

Data from NCBI (The National Center for Biotechnology Information)



Vecan Collagen AlternativeThe Vegan Collagen Alternative



Fermented Collagen Alternative: A Key to a Sustainable Future



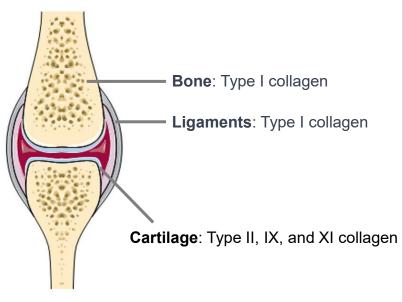


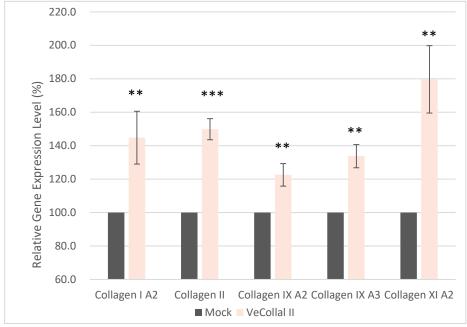
Better health for you kinder planet for all



VeCollal II can activate chondrocyte collagen gene and promote collagen secretion in cartilage.

It has been experimentally confirmed that VeCollal II can activate up to 50% of the type II collagen gene in chondrocytes and promote joint repair.





研究數據及結果系公司所有內部文件

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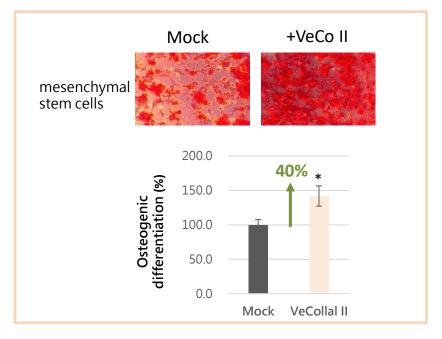
VeCollal II promotes osteoblast differentiation.

It has been experimentally confirmed that VeCollal II can promote the differentiation of mesenchymal stem cells into osteoblasts, increasing stem cell differentiation by 30%.

Differentiation of Osteoblast **Before After** mesenchymal

PLoS One. 2014 Apr 10;9(4):e94395

Induction of osteogenesis can be confirmed by staining calcium (red dye) to indicate bone formation.

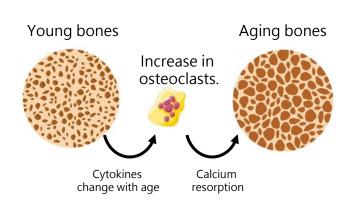


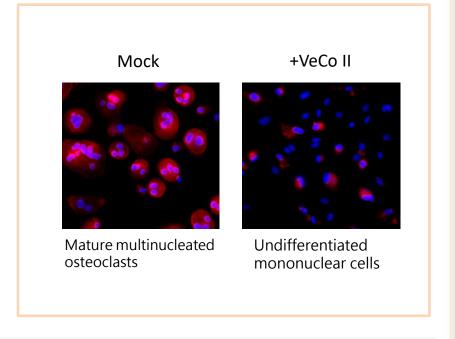
stem cells



VeCollal II inhibits the differentiation and maturation of osteoclasts.

It has been proven in experiments that VeCollal II can reduce the differentiation and maturation of osteoclasts, lowering the differentiation of mononuclear cells by 70%.

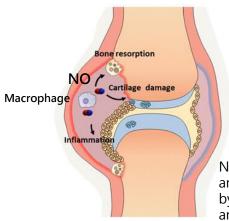






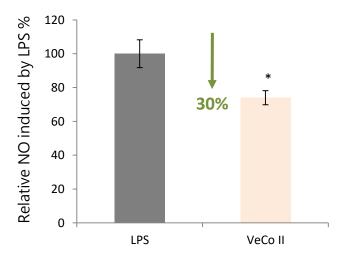
VeCollal II can reduce bone inflammatory factors.

VeCollal II can inhibit the production of nitric oxide (NO) by inflammatory macrophages, thus reducing the secretion of inflammatory substances and bone infiltration.



NO acts on rheumatoid arthritis and osteoporosis, characterized by increased NO production and activation of cytokines.

Immunology . 2001 Jul;103(3):255-61.



Compared to the Mock group, the LPS group (200ng/ml) significantly increased the content of NO (* indicates p<0.05).

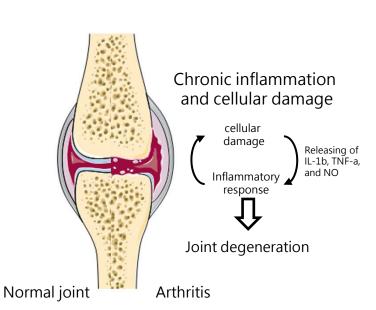
■ Mock

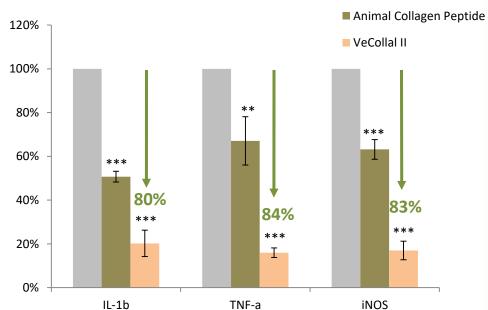




VeCollal II reduces the inflammatory response of chondrocytes.

VeCollal II can significantly reduce several inflammatory factors in chondrocytes.





DEVELOPING A VISION FOR YOUR FUTURE.

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