

SYSTEMIC ENZYME

Developed with Joseph J. Collins, R.N., N.D.*

Protocol Objective:

This protocol aims to identify typical indications of use and recommend dosing of systemic enzyme support to guide healthcare practitioners. Wobenzym® systemic enzyme products are supported by over 200 clinical trials and a history of 50 years of safe and effective use. Based on clinical studies and on practitioner experience, Wobenzym® has been successfully utilized to support a variety of clinical objectives throughout its history.‡

CLINICAL OBJECTIVE‡	SUPPORT FUNCTIONS‡	PRODUCT RECOMMENDATIONS*	REFERENCES
Joint Health	Supports healthy joints, mobility, and flexibility Provides temporary relief of everyday aches, pains, and muscle soreness Speeds recovery following exertion	Wobenzym® PS Formula: 200870 Wobenzym® Plus Formula: 201910 Wobenzym® N Formula: 201213	1, 2, 3, 4, 5, 6, 7, 8, 9
Post-Surgical Support	Provides post-surgical comfort and recovery Relieves minor swelling Promotes range of motion following surgery	Wobenzym® PS Formula: 200870 Wobenzym® Plus Formula: 201910	10, 11, 12
Post-Injury Support	Promotes flexibility and range of motion following mild injury Speeds recovery following mild injury	Wobenzym® PS Formula: 200870 Wobenzym® Plus Formula: 201910	4, 13, 14
Cardiometabolic and Vascular Health	Promotes healthy fibrolytic and platelet activity Helps maintain healthy glucose metabolism Supports healthy cardiometabolic biomarkers	Wobenzym® PS Formula: 200870 Wobenzym® Plus Formula: 201910	15, 16, 17
Gynecological Health	Maintains gynecological comfort and health of gynecological tissues Promotes genitourinary health Supports reproductive health	Wobenzym® N Formula: 201213	18, 19
Breast Health	Supports healthy breast tissue Helps maintain breast comfort	Wobenzym® N Formula: 201213	20, 21
Lymphatic Health	Promotes lymphatic drainage Supports healthy tissue fluid levels	Wobenzym® N Formula: 201213	22
Thyroid Health	Supports tissue function Maintains thyroid tissue health	Wobenzym® N Formula: 201213	23
Urinary Tract Health	Supports urinary tract comfort and function Helps maintain healthy urinary tract environment	Wobenzym® N Formula: 201213	24, 25
Immune Health	Promotes a healthy immune response with NK cell, T-cell, and mast cell function Helps to balance cytokines, particularly IL-6, Th1 and Th2 Supports respiratory health	Wobenzym® PS Formula: 200870 Wobenzym® Plus Formula: 201910 Wobenzym® N Formula: 201213	26, 27, 28, 29

*Dr. Collins was a retained advisor to Douglas Laboratories.

*Please note that patients may not require all supplements listed.

The information contained herein is for informational purposes only and does not establish a doctor-patient relationship.

FORMULATION	LABEL DOSE	OPTIONAL LOADING DOSE**	ATTRIBUTES†
Wobenzym® PS	3 tablets, twice daily	12 tablets daily	Higher potency / Acute use
Wobenzym® Plus	2 tablets, twice daily	8 tablets daily	Convenient dose / Active lifestyle
Wobenzym® N	3 tablets, twice daily	12-15 tablets daily	General wellness / Broad-spectrum long-term use

All Wobenzym® formulations should be taken at least 45 minutes before meals with water.

References:

1. Marzin T, Lorkowski G, Reule C, et al. *BMJ Open Sport & Exercise Medicine* 2017;2:e000191.
2. Ueberall MA, Mueller-Schwefe GH, Wigand R, et al. *Journal of Pain Research* 2016;9:941-961.
3. Bolten WW, Glade MJ, Raum S, et al. *Arthritis* 2015;doi:10.1155/2015/251521.
4. Kleine MW. *Journal of Clinical Research* 1998;1:87-102.
5. Baumuller M. *Allgemeinmedizin* 1990;19(4):178-182.
6. Leipner J, Iten F, Saller R. *BioDrugs* 2001;15(12):779-789.
7. Akhtar N, Naseer R, Farooqi A, Aziz W, Nazir M. *Clinical Rheumatology* 2004;23:410-5.
8. Klein G, Kullich W. *Clinical Drug Investigations* 2000;19:15-23.
9. Szczurko O, Cooley K, Mills EJ, Zhou Q, Perri D, Seely D. *Arthritis & Rheumatology* 2009;61(8):1037-1045.
10. Kameníček V, Holaň P, Franěk P. *Acta chirurgiae orthopaedicae et traumatologiae Cechoslovaca* 2001;Ch-7.
11. Vinzenz K. *Ödembehandlung bei zahnchirurgischen Eingriffen mit hydrolytischen Enzymen*. *Chirurgische Zahnheilkunde* 1991;7:1053-1064.
12. Rahn HD. *Praktische Sport-Traumatologie und Sportmedizin* 1994;10(1):22-27.
13. Baumuller M. *Allgemeinmedizin* 1990;19(4):178-182.
14. Rahn HD. *Deutsche Zeitschrift für Sportmedizin* 1995;9:426-431.
15. Mazurov VI, Stolov SV, Linetskaya NE, Onyschenko EF. *International Journal of Immunotherapy* 2001;17(2/3/4):113-120.
16. Paradis M-E, Couture P, Gignoux I, et al. *Pharma Nutrition* 2015;3(3):85-88.
17. Koshkin VM, Kirienko AI, Leontjev SG, et al. *Angiology and Vascular Surgery* 2000;6(2):61-64.
18. Friedrich, F. *Der Allgemeinarzt* 1993;17:1061-1064.
19. Ivaniya LI, Ivaniya SO, Kornatskaya AG, et al. *Farmatsevtichnii Zhurnal (Kiev)* 1998;2:89-92.
20. Dittmar FW, Luh W. *International J. of Experimental and Clinical Chemotherapy* 1993;6(1):9-20.
21. Rammer E, Friedrich F. *Wiener klinische Wochenschrift* 1996;108(6):180-3.
22. Dzupina A, Morvay P, Dzupinova M. *Lymfo* 2000;13-14.
23. Kvantchakhadze RG. *International Journal on Immunorehabilitation* 2002;4(1):114.
24. Sukhikh GT, Loginova NS, Faizullini LZ, et al. *International Journal of Immunotherapy* 1997;13:131-133.
25. Schlüter P, Stauder G. *TW Urologie Nephrologie* 1996;8:276-279.
26. Lorkowski G. *Int J Physiol Pathophysiol Pharmacol* 2012;4(1):10-27.
27. Marzin T, Lorkowski G, Reule C, et al. *BMJ Open Sport Exerc Med.* 2016;2(1)
28. Vokalova I. *Vox Paediatrica* 2003, Vol. 2., No. 9, pp. 29-30.
29. Paradis EV, Couture P, Gignoux I, et al. *PharmaNutr* 3 (2015) 83-88.

Available for download at: douglaslabs.com/protocols

**Optional loading dose is based on international literature and clinical experience; intended for use under the supervision of a healthcare practitioner. The information contained herein is for informational purposes only and does not establish a doctor-patient relationship.