

STAGE I BASIC

- Joint health maintenance program for puppies, dogs and cats throughout their lives
- Supports structure and function of joints and connective tissue
- Recommended by veterinarians for puppies, dogs and cats with early need for joint support
- Helps maintain mobility and flexibility

CUSTOMIZED FORMULATION

GLYCO-FLEX® I

Perna Canaliculus (GlycOmega™ brand Green Lipped Mussel)	600 mg
Glucosamine HCl (Shrimp and Crab)	500 mg
N,N-Dimethylglycine HCl (DMG)	100 mg

GLYCO-FLEX® I FELINE

Perna Canaliculus (GlycOmega™ brand Green Lipped Mussel)	300 mg
--	--------

JOINT SUPPORT

Amino acids, chondroitin sulfates, vitamins, and chelated minerals in GlycOmega™ Perna are needed to maintain healthy joint development and function after daily wear and tear. Glucosamine is required to optimize glycosaminoglycans (GAG) synthesis. Dimethylglycine (DMG) acts as an antioxidant and supports the immune system.



Available in chewable tablets & chews

STAGE II INTERMEDIATE

- For dogs and cats with moderate need for joint support
- Comprehensive support for joint and connective tissue health
- For adult and maturing dogs and cats
- For sporting and working breeds
- Helps support normal joint function as part of follow-up to orthopedic surgery

CUSTOMIZED FORMULATION

GLYCO-FLEX® II

Glucosamine HCl (Shrimp and Crab)	750 mg
Perna Canaliculus (GlycOmega™ brand Green Lipped Mussel)	600 mg
Methylsulfonylmethane (MSM)	500 mg
N,N-Dimethylglycine HCl (DMG)	100 mg
Manganese (as Mn Amino Acid Chelate) (Tablet)	10 mg
Manganese (as Mn Proteinate) (Chew)	10 mg

GLYCO-FLEX® II FELINE

Perna Canaliculus (GlycOmega™ brand Green Lipped Mussel)	300 mg
Methylsulfonylmethane (MSM)	250 mg
Glucosamine HCl (Shrimp and Crab)	250 mg
N,N-Dimethylglycine HCl (DMG)	50 mg
Manganese (as Manganese Amino Acid Chelate) (Tablet)	5 mg
Manganese (as Mn Proteinate) (Chew)	5 mg

JOINT SUPPORT

Chondroitin sulfates, methylsulfonylmethane (MSM), glucosamine, dimethylglycine, manganese and other minerals are needed for healthy connective tissue and joints.



Available in chewable tablets & chews

STAGE III ADVANCED

- For dogs in need of maximum support for structure and function of joints
- Advanced support for joint and connective tissue health
- For geriatric, retired, working and sporting breeds
- Contains antioxidants which protect against free radical damage

CUSTOMIZED FORMULATION

GLYCO-FLEX® III

Glucosamine HCl (Shrimp and Crab)	1000 mg
Methylsulfonylmethane (MSM)	1000 mg
Perna Canaliculus (GlycOmega™ brand Green Lipped Mussel)	600 mg
N,N-Dimethylglycine HCl (DMG)	100 mg
dl-alpha Tocopheryl Acetate (Vitamin E)	50 IU
Calcium Ascorbate (Vitamin C) (Tablet)	30 mg
Ascorbic Acid (Stay-C ®) (Chew)	24 mg
Manganese (as Manganese Amino Acid Chelate) (Tablet)	10 mg
Manganese (as Mn Proteinate) (Chew)	10 mg
Grape Seed Extract	5 mg
L-Glutathione	2 mg
Selenium (as Sodium Selenite)	0.002 mg

GLYCO-FLEX® III MINI

Perna Canaliculus (GlycOmega™ brand Green Lipped Mussel)	300 mg
Glucosamine HCl (Shrimp and Crab)	250 mg
Methylsulfonylmethane (MSM)	250 mg
N,N-Dimethylglycine HCl (DMG)	50 mg
dl-alpha Tocopheryl Acetate (Vitamin E)	25 IU
Ascorbic Acid (Vitamin C)	12 mg
Manganese (as Mn Proteinate)	5 mg
Grape Seed Extract	2.5 mg
L-Glutathione	1 mg
Selenium (as Sodium Selenite)	0.001 mg

JOINT SUPPORT

Contains the highest levels and widest range of joint support factors, which is important for animals experiencing increased joint stress. Antioxidants like vitamin C, vitamin E, selenium, dimethylglycine, glutathione and grape seed extract support joint health.



Available in chewable tablets & chews

GlycOmega™ is a trademark of Aroma New Zealand Ltd.

WHAT IS GLYCOMEGA™ BRAND PERNA CANALICULUS?

GlycoOmega™ (*Perna canaliculus*/Green Lipped Mussel) from New Zealand is produced under strict government regulated standards to ensure quality and purity. The GlycoOmega™ used in the Glyco-Flex® products is from an exclusive source available only to Vetri-Science®. *Perna canaliculus* is an edible species of shellfish from New Zealand that can be freeze-dried into a concentrated powder. It is rich in amino acids (building blocks that make up connective tissue), polypeptides, chelated minerals, fatty acids (essential for producing and rebuilding new cells), glycosaminoglycans (which make up the core of connective tissue), vitamins and the nucleic acids RNA and DNA. GlycoOmega™ Perna contains all major classes of glycosaminoglycans (GAGs) including chondroitin -4- and -6- sulfates that occur in connective tissue such as joint cartilage, tendons, ligaments, and synovial fluid. GAGs are broken down and may not be replaced effectively due to age or metabolic status. As dogs and cats age, there may be an insufficient production of glycosaminoglycans and proteoglycans (more complex structures containing GAGs), which can result in joint stress, thinning of the synovial fluid, and accelerated breakdown of connective tissue. Perna naturally contains long-chain unsaturated fatty acids, glycoproteins, glycosaminoglycans, protein complexes, and polysaccharides, which are important in maintaining healthy connective tissues.

WHAT ROLE DO AMINO ACIDS PLAY?

Amino acids (essential and non-essential) support the growth and development of all body tissues. Branched-chain amino acids (valine, isoleucine, and leucine) provide energy directly to muscle tissue.

WHAT ARE CHELATED MINERALS AND WHY ARE THEY IMPORTANT?

A chelated mineral is one that is attached to a protein molecule and thereby helps the body absorb the mineral effectively. Minerals like manganese and calcium are important to bone and joint health.

WHAT ROLE DO FATTY ACIDS PLAY?

Omega 3, 6, and 9 fatty acids support joint health, immune system function and skin health.

WHAT ARE GAGs AND WHY ARE THEY IMPORTANT?

GAGs are the principle components of cartilage and synovial fluid found in the joint. They have been referred to as the "glue of life" as they help hold together connective tissues like collagen, tendons and ligaments. They are essential for maintaining the shock absorbercy of joints.

WHAT IS GLUCOSAMINE?

Glucosamine is an amino sugar produced in the body that provides a key building block for the synthesis of GAGs and proteoglycans. Glucosamine is found in the tissues of tendons, ligaments, cartilage, synovial fluid, skin, heart valves and the eye.

Glucosamine has been shown to stimulate GAG synthesis in the cartilage matrix and synovial fluid. The body uses glucosamine to produce the GAGs, which then give shape, elasticity and rigidity to the aforementioned connective tissues as well as intervertebral discs, the interstitium and mucous membranes. A high level of GAGs enables the joints to hold more water thereby increasing flexibility, cushioning ability, and resiliency. Glucosamine makes up fifty percent of hyaluronic acid; the principal GAG found in synovial fluid.

WHAT IS METHYLSULFONYLMETHANE?

Methylsulfonylmethane (MSM) is a source of organic sulfur and can act as a building unit for sulfur-containing constituents. Sulfur is an essential mineral found in various compounds and structures in the body such as collagen, hormones, and immunoglobulins (proteins with antibody activity).

Sulfur, as part of MSM, helps the body to maintain good cell membrane flexibility and permeability, which allows for the exchange of nutrients into and toxins out of the cell. It is also involved in the formation of collagen.

MSM provides organic sulfur for amino acids used to create new cells. The concentration of organic sulfur in the body can be reduced through the normal aging process and stress.

WHAT IS DIMETHYLGLYCINE?

Dimethylglycine (DMG) is a versatile health-building factor that can help animals maintain a strong immune system. It is a natural amino acid found in the body. DMG supplies methyl groups for modification, building and detoxifying many constituents in the body and acts as an antioxidant.

WHAT IS MANGANESE?

Manganese is an essential mineral that supports many enzyme-controlled reactions. It is required for the enzyme glycosyltransferase, which is essential for the formation of collagen, GAGs, and proteoglycans, which are all components of articular cartilage. A lack of manganese can lead to insufficient production of GAGs in the joints.

WHAT ROLE DO ANTIOXIDANTS PLAY?

Antioxidants are substances that block or inhibit destructive oxidation reactions and protect against free radical damage.

WHAT IS VITAMIN C (CALCIUM ASCORBATE)?

Calcium ascorbate is the mineral calcium combined with vitamin C (ascorbic acid). This combination is well absorbed from the digestive tract. Calcium ascorbate has been found to be very beneficial in connective tissue health. As a mineral, calcium is vital for the formation of strong bones. It is also needed to reduce muscle cramping and for muscular growth and contraction.

Please ask your Vetri-Science® Laboratories or authorized Glyco-Flex® distributor sales representative for a copy of the Glyco-Flex® Clinical and Research Studies Brochure.

Satisfaction Guaranteed

Client Brochure

Vetri-Science® Laboratories
20 New England Drive, Suite 10
Essex Junction, VT 05452
1-800-882-9993
Website: www.vetriscience.com

Copyright © 2010 by Vetri-Science® Laboratories. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of the copyright owner.

GlycoOmega™ is a trademark of Aroma New Zealand Ltd.

BR1 CondensedGlycoFlex 0310



GLYCO-FLEX®

Leading The Pack In Advanced Joint Support Products



 **VETRI-SCIENCE®**
LABORATORIES