Max Muscle Sports Nutrition (MMSN) is pleased to introduce its newest pre-workout innovation, Max Nitro 2. Masterfully formulated to promote the body’s production of nitric oxide, this scientifically-based formula is designed to provide insane muscle pumps, intensity and performance. Max Nitro 2 is composed of a rapid responding molecular matrix of powerful ingredients to promote the production of nitric oxide by supporting the key enzyme responsible for this process in athletic performance called endothelial NOS or eNOS. Max Nitro 2 is your key product for peak strength performance and vascular architecture.

Max Nitro 2 is composed of powerful ingredients to support the production of nitric oxide (NO). Nitric oxide is an important signaling molecule involved in numerous physiological and pharmacological processes in the human body. Nitric Oxide is formed by the action of the enzyme NO synthase (NOS) on the substrate L-arginine. There are 3 forms of NOS; inducible NOS (iNOS), endothelial NOS (eNOS) and neural NOS (nNOS). The eNOS, found in the vascular endothelium, is most important for athletic performance. Nitric oxide results in expansion of the blood vessels (vasodilation) which enhances blood flow, oxygen transport, and nutrient delivery to skeletal muscles.

Max Nitro 2 was designed to provide two levels of support for NO production, the amount of arginine substrate needed for the production of nitric oxide and support and amplification of the eNOS enzyme that facilitates the production of nitric oxide. For the substrate or fuel source to produce NO, we have added a proprietary blend of three extreme forms of arginine for maximum pharmacokinetics. The three multi-source forms include arginine alpha-ketoglutarate (A-AKG), arginine ketoisokaproate (A-KIC), and arginine monohydrate HCL. Arginine alpha-ketoglutarate (A-AKG) is a powerful and special form of arginine resulting in dramatic NO release. A-AKG has also been shown to promote growth hormone and insulin secretion for additional anabolic effects. Arginine ketoisokaproate and arginine monohydrate HCL provide the other two forms for boosting NO levels.

Max Nitro 2 contains citrulline. Citrulline is an amino acid that is tightly linked to arginine metabolism. Citrulline plays a pivotal role in supplying arginine to eNOS and has the unique ability to recycle itself to maximize and sustain NO levels for extended vasodilation benefits and muscle pumps. Quercetin belongs to a group of plant pigments and is a dietary flavonoid. New research has shown benefits of quercetin on NO bioactivity of the blood vessels and protecting NO for extended NO kinetics. Quercetin has the additional benefit of functioning as a powerful antioxidant.

Resveratrol is a powerful bioactive polyphenolic compound found in red wine. Exciting new research has shown that resveratrol upregulates eNOS mRNA expression resulting in enhanced NO production. Additionally, resveratrol upregulates antioxidant enzymes superoxide dismutase (SOD), catalase and glutathione peroxidase. Vitamin C has been known to have beneficial vascular effects. Vitamin C increases the bioavailability of NO and may prevent endothelial dysfunction by scavenging free radicals. Vitamin C enhances the effects of L-citrulline. Other science-supported ingredients to increase NO production cofactors thiamin and niacin. These essential vitamins have been added to support optimal enzyme function along with magnesium. Magnesium is a component of hundreds of enzymes involved in metabolism and energy support.

KEY FEATURES
- Enhances Nitric Oxide Modulation†
- Promotes eNOS Upregulation†
- Rapid Responding Molecular Matrix†
- Optimizes Blood Flow and Nutrient Delivery†
- Enhanced Muscle Pumps, Intensity, and Power†

KEY MESSAGES
- Designed to provide two levels of support for NO production, the amount of arginine substrate needed for the production of nitric oxide and support and amplification of the eNOS enzyme that facilitates the production of nitric oxide.
- Unique hybrid of three forms of arginine including arginine alpha-ketoglutarate (A-AKG), arginine ketoisokaproate (A-KIC), and arginine monohydrate HCL.
- Citrulline plays a pivotal role in supplying arginine to eNOS and has the unique ability to recycle itself to maximize and sustain NO levels for extended vasodilation benefits and muscle pumps.
- Quercetin enhances the effects of nitric oxide on blood vessels and protecting NO for extended NO kinetics. Quercetin has the additional benefit of functioning as a powerful antioxidant.
- Resveratrol has been shown to upregulate eNOS mRNA expression resulting in enhanced NO production. Additionally, resveratrol upregulates antioxidant enzymes superoxide dismutase (SOD), catalase and glutathione peroxidase.
- Contains a unique buffered form of magnesium chelate along with vitamin C as an intracellular antioxidant.
- Niacin have been added to support optimal NO synthase (NOS) function.

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Max Nitro 2 provides the two necessary levels of support for nitric oxide production, the multi-source forms and amounts of arginine substrates needed and support and amplification of the eNOS gene/ enzyme that biochemically converts arginine to nitric oxide. This scientifically advance and specially formulated supplement will ensure optimum vascular and muscle enhancing benefits.†

KEY REFERENCES