



...Out with the Old, In with the New

How does the New Vitalzym compare to the Old Vitalzym?

What Quantity is available?

Old – Capsules/Bottle	New – Capsules/Bottle
90	180
270	360
450	

How does the Old 500mg Vitalzym capsule compare to the New 56mg capsule?

Old Vitalzym Formulation	New Vitalzym Formulation
The 500mg capsule was a powder-filled green vegetable two-piece capsule. Without enteric coating, the loss of enzyme activity due to the low pH level in the stomach was approximately 10-30%. A larger quantity of a lower activity level enzyme blend, including excipients and binders, was required to account for the loss of activity through the digestive system and to ensure that sufficient enzyme activity remained to be absorbed into the bloodstream through the small intestine.	The 56mg capsule is a fully enteric coated liquid gel filled capsule with an enzyme blend that is twice the activity level of the Old Vitalzym blend. Because it is enteric coated, the full enzyme activity level is available to be absorbed into the bloodstream through the small intestine.

Why did the recommended dosage change?

Due to the new and improved delivery system of the New Vitalzym to a fully enteric coated liquid gel capsule, the required dosage for the same benefit has drastically reduced because the activity of the enzymes are fully protected. The Old Vitalzym had a recommended dosage of 3-5 capsules three times per day while increasing the dose by one capsule every three days until a benefit is felt. Once again, the reason for this increase and determining the activation dose was because of the 10-30% loss of enzyme activity previously discussed.

With the new state of the art delivery system, the New Vitalzym recommended dosage is 2-6 capsules two times a day because of the full enteric coated capsule allowing maximum absorption and no need to keep increasing the dosage because no activity is lost as a result of disintegration in the gastric juices. Remember, the New Vitalzym enteric coating is pH sensitive to release the active enzymes in the higher pH region of the small intestine for absorption so loss of activity is no longer a problem. Lessening the dose frequency from 3x/day to 2x/day means more compliance by clients and patients.

What is the equivalent dosage conversion from the Old to the New?

<u>Vitalzym Type</u>	<u>Dosing Strength</u>	<u>Capsules</u>	<u>Capsules</u>	<u>Capsules</u>	<u>Capsules</u>	<u>Capsules</u>
	If Dosing at:	8 to 9	12	15 to 16	18 to 20	24
Original Vitalzym 450		3 caps/3x/day	4 caps/3x/day	5 caps/3x/day	6 caps/3x/day	8 caps/3x/day
Monthly Capsule Requirement		270	360	450	540	720
Day's Supply/Bottle		50 Days	37.5 Days	30 Days	25 Days	18.75 Days
	New Dosing:	4	6	8	10	12
New Vitalzym 180	2x-Original	2 caps/2x/day	3 caps/2x/day	4 caps/2x/day	5 caps/2x/day	6 caps/2x/day
Monthly Capsule Requirement		120	180	240	300	360
Day's Supply/Bottle		45 Days	30 Days	22.5 Days	18 Days	15 Days
	New Dosing:	4	6	8	10	12
New Vitalzym 360	2x-Original	2 caps/2x/day	3 caps/2x/day	4 caps/2x/day	5 caps/2x/day	6 caps/2x/day
Monthly Capsule Requirement		120	180	240	300	360
Day's Supply/Bottle		90 Days	60 Days	45 Days	36 Days	30 Days

How have the "other ingredients" changed from the Old Vitalzym to the New?

<u>OLD</u>	<u>New</u>
Other Ingredients:	Other Ingredients:
Cellulose	Medium Chain Triglycerides
Maltodextrin	Starch
Silicon Dioxide	Glycerin
Magnesium Stearate	Polysaccharide
Riboflavin	Corn Protein
Chlorophyllin	Beeswax
	Glycerin Fatty Acid Ester
	Soy Lecithin
	Citric Acid

Old Vitalzym Formulation	New Vitalzym Formulation
The other ingredients were included to assist in the encapsulation process for ingredient flow, coloring of the capsule and raw materials, excipients to stabilize the active enzymes and material composition of the capsule.	The other ingredients were included to support the new delivery system of enteric coating and the liquid gel filled capsule. MCT is the liquid medium used to more effectively disperse and stabilize the active enzymes.

Why did the individual ingredients in the proprietary blend change in quantity thus in order of amount?

<u>OLD</u>	<u>NEW</u>
Proprietary Blend:	Proprietary Blend:
Protease	Bromelain
Serrapeptase	Papain
Papain	Rutin
Bromelain	Amylase
Amylase	Protease
Lipase	Lipase
Rutin	Amla
Amla	Serrapeptase

With the new delivery system of enteric coating, the amount of active enzymes available to be absorbed increases. Thus, the old Vitalzym activity per mg of Serrapeptase was 100u/mg and the New Vitalzym yields a minimum of 3,300u/mg of Serrapeptase and increases to nearly 4,000u/mg. Since liquefying and enterically coating the enzymes fully in the new Vitalzym, the activity level increases because the risk of losing the activity through disintegration in gastric juices is eliminated.

So why make the change?

We have upgraded the delivery system to a state of the art fully enteric coated liquid gel capsule. This change allows patients and clients to take fewer capsules while ensuring a higher level of enzyme activity available to be absorbed into the bloodstream through the small intestine without worrying about premature disintegration/release. The capsules are smaller yet more potent and the yield of activity per milligram of Serrapeptase significantly increased from 100 units/mg to a minimum of 3,300units/mg up to 4,000 units/mg overall. At World Nutrition, we strive to use only the best quality ingredients to give us the best products and what we did was make a good product GREAT!



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