

Physical Properties of MRET Activated Water Related to its Biological Benefits

Viscosity of MRET activated water subject to very small tangent pressure decreases 300-500 times

The research conducted at Moscow State University, Russia on distilled water subject to tangent pressure showed that after MRET treatment the viscosity of water decreased up to 300-500 times compare to regular water in the area of very small magnitudes of tangent pressure. The anomalous viscosity of MRET water subject to very low tangent pressure confirms the high level of long-range dynamic polarized oriented multilayer structuring of water produced with the help of MRET activation process: the high level of long-range molecular coupling (hydrogen bonding) inside the “layer” and very low level of molecular coupling between the “layers.”

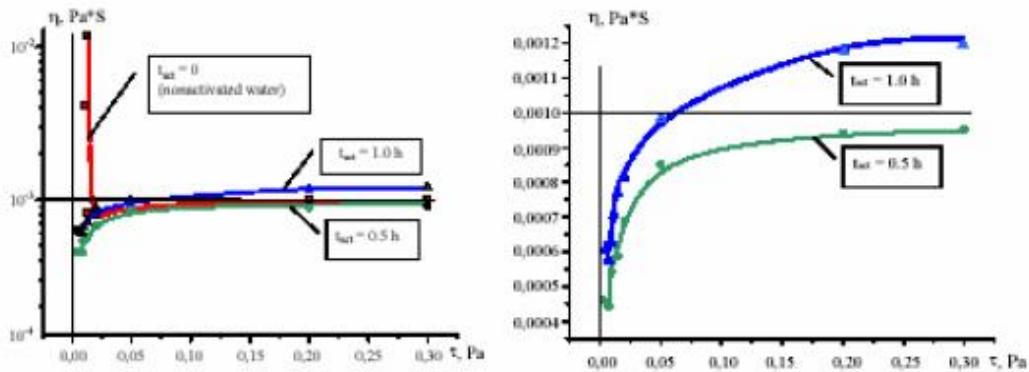


Fig 1: Viscosity of non-activated water and two fractions of activated water at 20° C in the area of very low tangent pressure.

It is well known that cellular processes in biological systems are driven by the low energy of bio-chemical reactions inside and between the cells and cellular structures. Consequently, such processes create low tangent pressures along water surfaces and the membranes between the cells. Thus, the very low tangent pressures existing in biological systems contribute to the manifestation of anomalously low viscosity of MRET water. **Due to its “super liquidity” MRET water easily penetrates through small porous and capillaries in the body.** Based on this fact it is possible to conclude that MRET water may significantly improve the cellular membranes function as well as the function of blood circulatory system in the body.

Modification of the pH index of MRET activated water

The research conducted at Moscow State University, Russia revealed the oscillating and fluctuating character of pH values in distilled water depending on time, spontaneous fluctuations of geomagnetic field and environmental conditions, and other types of intracorrelation between physical and biological parameters of water. This experiment was conducted according to standard methodology with the help of

Ionometer EV 74 (Russia). It confirmed that in MRET water activated for 30 minutes the pH index showed the tendency to balance closer to pH=7. This experiment revealed the tendency of the process of MRET activation for 30 minutes to reduce the acidity of distilled water compare to non-activated distilled water.

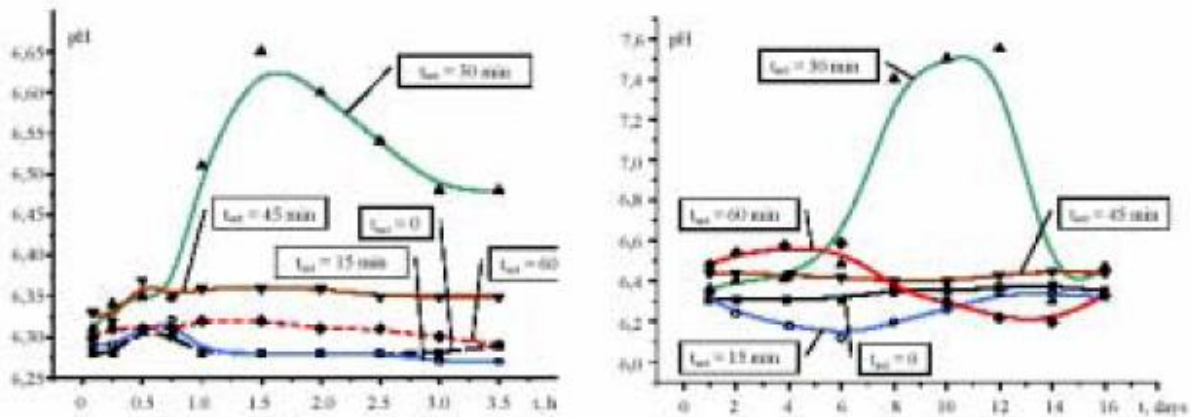
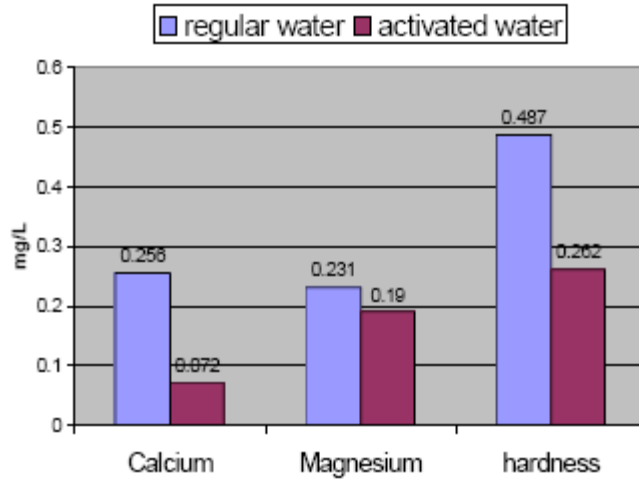


Fig 1: The pH index of different fractions of activated water as a function of the time of its storage at temperature 20° C during first hours and 16 days after activation.

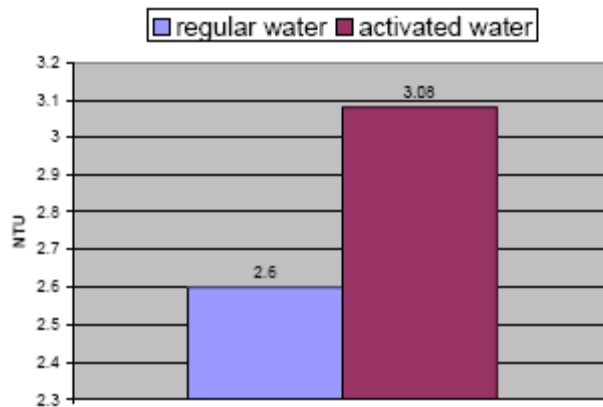
Reduction of free radicals in MRET activated water (and water is softer and pleasant to drink!)

Free radicals (ions) can affect the cellular function in negative way. Consequently, the reduction of the level of free radicals in the body leads to the enhancement of the body homeostasis and metabolism. Testing conducted at C.A.I. Environmental Laboratory, Carlsbad, USA revealed the significant reduction of free radicals following the process of MRET activation.

In the water activated for 30 minutes the amount of ions of calcium decreased by 72% and the amount of ions of magnesium decreased by 18%. As a result, the hardness of water (combined amount of ions of calcium & magnesium) decreased by 45%. These results confirm that free radicals (ions) make bonding with long-range polarized molecular structures in MRET water and have less effect on the process of proper cellular function. *The decrease of the hardness in MRET activated water contributes to its soft and smooth taste!*

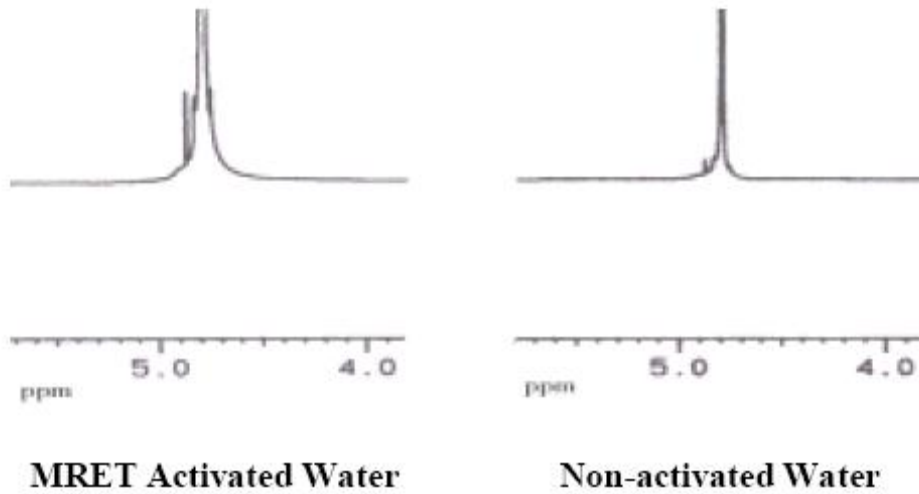


The process of activation increased the turbidity of water. The increase of turbidity illustrates that free radicals bonding with long-range polarized molecular structures of MRET activated water form sediments.



Nuclear Magnetic Resonance test confirmed the modification in water molecular structuring after MRET activation

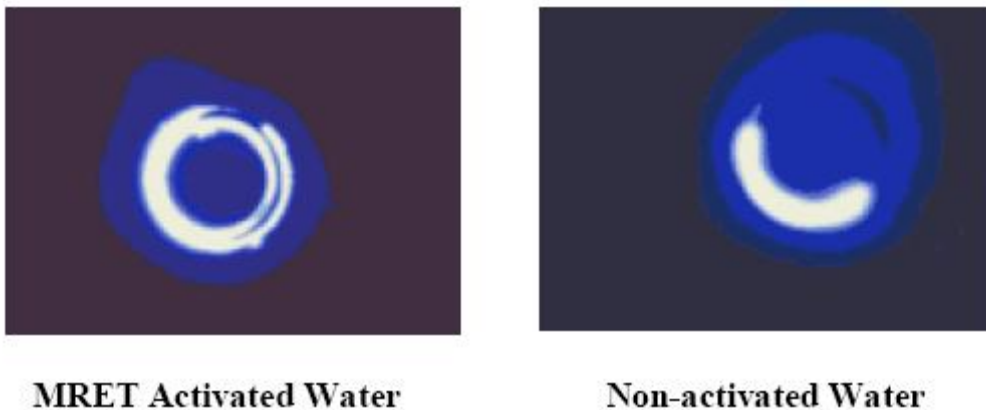
The test was conducted at Numega Resonance Laboratory, San Diego, USA on three samples of MRET activated water compared with a sample of non-activated water from the same source. Experimental data revealed a consistent 2.5 times increase in the width of “proton peak” in the line of NMR absorption for the samples of MRET activated water compare to the sample of regular non-activated water. The increase of the width of “proton pick” characterizes the increase of proton dispersion and confirms the modification in molecular structuring of MRET water.



High voltage photography

This test was conducted at Global Quantech, Inc., San Marcos, USA. The High-Voltage photographs showed the enhanced Corona Discharge Effect (luminous fringes that appear around electrically conductive samples of water) in MRET water. The physical process of cold emission of electrons produces the Corona Discharge phenomenon. The emission of electrons in MRET activated water is more intensive compare to non-activated water. It means that the energy level of water molecules is higher. Due to the fact that no foreign substances were introduced to the water during the activation process, the enhanced Corona Discharge Effect could occur only as a result of structural changes in MRET activated water.

MRET Activated Water Non-activated Water



.....