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Stem Cell Nutrition Ingredients

'Hello everyone, many people have asked the question lately over the last few months or made comments on social media on YouTube, on Facebook, as to what is the best ingredient to support the natural release of stem cells from the bone marrow.

I thought the best way to answer these questions, was simply to go back to the data, to the scientific data, to what has been published in the scientific literature the peer reviewed scientific literature.

And it starts with the very first ingredient that was documented to support the natural release of stem cells from the bone marrow, which is StemEnhance. Actually, it was the work that was done on StemEnhance that really led to the development of what is today known as the natural repair system, the natural renewal system that is based on the release of our own stem cells. So if we go back to that paper, which was published in 2007, we can see that the median release of stem cells, or the median increase in the number of circulating stem cells after one hour is roughly around 50%.

This was also confirmed by a 3rd party study that was published in Egypt, I believe it was 2013, when the exact same increase in the number of stem cells in circulation was documented one hour after consumption of StemEnhance.

And what I want to point out here is that over the years, we have talked about a 30% increase in the number of stem cells in circulation. And the reason why we said this is simply because in the early days when all of the documentation and all of these studies were done and we were getting ready to bring stem enhance to the market place, our legal counsel and desert lake technologies, you know, stem cells are linked to diseases, so if you make a stem cell claim, you will probably be in trouble with the FDA. And at that time, what I was saying, was no, we will not be in trouble because it's a function of the body, so this is going to be a functional claim. But we were into this argument with our legal counsel and finally the compromise was to make a statement about stem cell support, but making it very very conservative, to keep it as low as we could, to make it significant, but really not too high. So we basically talked about a 25-30% increase in the number of circulating stem cells.

But if we go back to the data that was published, it's a median release of 50%, and in one individual, we gave that person StemEnhance on 16 different days and then documented the increase in the number of circulating stem cells. And the range here is pretty wide, going as high as 325% increase in the number of circulating stem cells. So that's what we had with StemEnhance.

From there, we started to look at other ingredients, we looked at fucoidan from undaria pinnatifida, and what we found that the consumption of fucoidan from undaria pinnatifida, we have an increase in the number of circulating stem cells of about 18%, which is much less than what we have with StemEnhance, but what was very interesting here is that release was sustained over time. So the idea was that if we can blend these 2 together, we are going to get a very interesting synergy.

And that's what we got, we got a very interesting synergy in terms of a significant release of stem cells from the bone marrow, that was sustained over time. So the line that we see here is the blend of these 2 ingredients.

Some competitors in the market place are using this curve to say that that was a response to fucoidan. It is not accurate, that was the response by combining both StemEnhance and fucoidan. Then another ingredient that was discovered to trigger stem cell release from the bone marrow was aloe macroclada. Again, some exaggerated statements and claims have been made, the best is simply to go back to the data that was published a few years ago, the data is showing that within a few hours of consuming aloe macroclada, we have an increase very comparable to what we have with StemEnhance.

Again, it's sustained over time, but what was really the discovery with aloe macroclada, is that it increased the number of one specific type of stem cells, called endothelial progenitor cells, these are stem cells that lead to the formation of new capillaries, it's something that is very important in the body, to deliver cells, to deliver nutrients, oxygen to various tissues, so if you have better circulation, then obviously the entire body can function better.

So that's the secret behind these type of stem cells called endothelial progenitor cells, so aloe macroclada lead to that increase. Now, again, it's by blending the 2 together, StemEnhance, fucoidan from undaria pinnatifida, and aloe macroclada, that we get a very interesting response. But here again, some competitors out there in the market place are using this curve, which is the combination of all these ingredients, to claim this was the response to aloe macroclada. Again, this is false and inaccurate. It is the response of all these 3 combined together.

And the last ingredient that was documented is Mezenkine. Mezenkine is an extract from spirulina that was developed and discovered as Cerule was developing Cyactiv, which is a concentration from phycocyanin from spirulina. So this yellow liquid called Mezenkine was discovered along the way and then we started to do some work on it and discovered some very very interesting things. Mezenkine, within an hour of consumption, will increase the amount of GCSF in the blood stream. Now GCSF is the natural signal that the body sends to the bone marrow to trigger the release of stem cells from the bone marrow, so that these stem cells can go and repair various parts of the body.

So what Mezenkine does is to really tap in the very signal that damaged tissue in the body will trigger to call for stem cell release from the bone marrow. And as we looked at stem cells in the blood stream, we saw that Mezenkine also increases the number of endothelial progenitor cells up to 60%. All of this is in preparation for publication, but it is to show that Mezenkine gives us a response very comparable to what aloe macroclada gave us.

And we blend all of these together, this is where we get again, the best response. When we

blend stem enhance, fucoidan from undaria pinnatifida and Mezenkine. I think the take home message with all of this, is that all these ingredients are very interesting ingredients. It's very difficult to say which one is better than the other. The real take home message is when we blend all of them together, we really get the strongest response. And at this point in time, in terms of actual products available, [StemEnhance Ultra](#) is really the most powerful product, because it does blend StemEnhance, the original ingredient, Fucoidan from undaria pinnatifida, and Mezenkine, that has an effect on GCSF and endothelial progenitor cells.

The take home message the blend of these ingredients is the strongest product to take to support the release of stem cells from the bone marrow.

Thank you.'

- Christian Drapeau, CSO, Cerule



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