

FREQUENTLY ASKED QUESTIONS

HOW DOES THE BIOPHOTONIC SCANNER WORK?

The BioPhotonic S3 Scanner functions on the principle of reflected and scattered light discovered by C.V. Raman in 1930, and adapted for the assessment of carotenoids in living tissues by Gellermann et al. in 2000. Resonance Raman Spectroscopy is based on the fact that each species of molecule in the body can reflect a different set of colours when stimulated with a light source of a known frequency. The scanner technology works on the principle of light and the fundamental particle of light is a photon. White light has photons of different wavelengths, which are represented by colours. The scanner produces a narrow beam of light in which all of the photons are the same colour—blue. The blue light has a wavelength of 473 nanometers (nm).

When a 473 nm photon of light comes into contact with a carotenoid, something interesting happens. The energy level of the 473 nm photon increases to 510 nm, the wavelength associated with green light. The only molecule in nature that can shift a 473 nm photon to a 510 nm photon is a carotenoid.

As 473 nm photons strike carotenoids in the skin, they are reflected back as 510 nm photons. This is how carotenoid concentration in the skin is measured. Because the number of photons reflected at the 510 nm wavelength is proportional to the concentration of carotenoids in the skin, these green photons are then counted to calculate the individual's Skin Carotenoid Score.

WHAT MAKES THE BIOPHOTONIC S3 SCANNER UNIQUE?

The BioPhotonic S3 Scanner is the world's first non-invasive method of determining antioxidant activity by measuring skin carotenoids. This patented technology is exclusive to Nu Skin Australia/New Zealand Enterprises.

IS THE BIOPHOTONIC S3 SCANNER SCIENTIFICALLY VALIDATED?

The use of Raman Spectroscopy for biological measurements is an established scientific discipline backed by years of research. The Pharmanex BioPhotonic Scanner S1, S2, and now the S3, are patented applications of Resonance Raman Spectroscopy. The scanner can measure carotenoids in living tissue and help to improve nutrition. The use of biophotonics to assess biological molecules in living tissue is a distinct scientific discipline, and the Pharmanex BioPhotonic S3 Scanner is an instrument that is based on the same principles. The use of Raman Spectroscopy for the assessment of human tissue carotenoids has been validated by at least eight peer-reviewed studies conducted by third party entities. (Bernstein, 1998, 2002; Ermakov, 2004a, 2004b; Gellermann, 2004, 2002; Hata, 2000; Zhao, 2003.)

In addition to the external research, Pharmanex has validated the use of Raman Spectroscopy for the measurement of carotenoids in several studies to demonstrate the benefits of antioxidant protection.

WHAT DO MY RESULTS MEAN?

Your Skin Carotenoid Score is an immediate numeric reading of your own skin carotenoid content and an important indicator of your body's antioxidant defence system. As you continue to participate in the LifePak supplementation program, you can track your Skin Carotenoid Score. Knowing your SCS empowers you with a personalised assessment that you can use to develop an antioxidant defence strategy. Your SCS is reflective of long-term lifestyle habits and is not subject to changes during short periods of hours or days. Scanning every six to eight weeks is ideal to help you determine whether you are consuming a healthy diet and an adequate amount of antioxidant-containing nutrients.

HOW CAN I IMPROVE MY S3 SCANNER SCORE?

To improve your scanner score, supplement with complementary Pharmanex products, such as g3, LifePak, etc. You should also focus on consuming more highly coloured fruits and vegetables, and reducing your exposure to sun, pollution, and tobacco smoke. Finally, make sure to get adequate sleep and maintain a healthy body fat percentage.

WILL I FEEL ANYTHING DURING THE SCAN?

The scanner is non-invasive and it is unlikely that you will feel anything during your scan. Although it's rare, some individuals have reported feeling a tingling sensation in their hands while getting scanned.

DO I OWN THE S3 SCANNER?

Nu Skin Australia / New Zealand Enterprises owns the scanner and you are leasing it from the company. Please refer to the Use Agreement you have signed with your S3 Scanner lease.

WILL THE S3 SCANNER WORK WITH DEVICES OTHER THAN THE IPAD?

No, the S3 Scanner will not function with operating systems or devices other than the Apple iPad Mini. There are no current plans to adapt the S3 Scanner app for Android, Windows, or other platforms.

HOW IS THE S3 SCANNER DIFFERENT FROM THE S2 EDITION?

The S3 Scanner is 50 percent lighter, 60 percent smaller, portable, and battery powered. It has a faster warm-up time and scans faster, with the average scan taking just 30 seconds to complete. The S3 Scanner also operates with the iPad mini wirelessly via Bluetooth.

HOW OFTEN SHOULD I GET SCANNED?

We recommend you get scanned every six to eight weeks to help you determine whether you are consuming an adequate amount of fruits and vegetables and antioxidant containing nutrients.

HOW CAN I GET SUPPORT FOR MY S3 SCANNER OR THE S3 SCANNER APP?

You can obtain support for the S3 Scanner and S3 Scanner app by calling Technical Support on 1300 687 546 (AU) OR 0800 687 546 (NZ). You can also find troubleshooting tips and instructions in the S3 user manual and S3 instructional video found on www.nuskin.com.au or www.nuskin.co.nz.

HOW CAN I GET SUPPORT FOR THE IPAD MINI?

Nu Skin does not provide technical support for the iPad mini. Nu Skin provides support for the S3 Scanner and the S3 Scanner app. To obtain support for your Apple device, please contact Apple directly.