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**S-Drive Overview**

The S-Drive is a portable device with a spectrum coil in its center that produces electromagnetic longitudinal waves (scalar). These waves sense the changes that occur when the hair roots are placed on the coil. The device qualifies as a "general wellness product" under the United States Food and Drug Administration Center for Devices and Radiological Health's compliance policy entitled "General Wellness: Policy for Low Risk Devices' issued on July 29, 2016", FDA guidance 1300013 (UCM429674).

**Genetics Background**

The genotype the genetic makeup of a cell and therefore an individual. It is based on the coded DNA sequence present in each cell of the body, which is constant and does not change. The expression of the DNA (e.g., which proteins are made from the DNA sequence) is called the phenotype. The genotype represents 2% of gene expression. The other 98% is influenced by informational signals received from the environment. These are known as "epigenetic factors" and they represent ever changing, non-inherited environmental signals that influence the natural state of wellness and health of the individual. The exposure to such signals influences and determines the growth, cellular differentiation, and development throughout the different stages of the life cycle of the organism, starting from the fertilization of the egg, right through the physical death of the organism. The environmental signals intervene in the regulation of gene expression and gene silencing without any change in the DNA sequence.

**Epigenetics**

Epigenetics examines gene function that does not involve changes in the DNA sequence and plays a very important role in biological and health sciences.

Epigenetics explores the set of factors, including biochemical and environmental signals, that modify the expression of DNA without altering the genotype, thus altering the physical characteristics of the organism, that is the phenotype. In short, epigenetic changes do not alter the genes themselves, but they influence how the genes behave, thereby having a direct impact on the state of wellness and health of the organism.

**How Does the S Drive Work?**

Cell Wellbeing's German based technology highlights the use of epigenetic mapping which is based on scanning the hair bulb for epigenetic changes. The S-Drive is not used as a diagnostic tool nor a laboratory testing technology. Mapping reports are based on in vivo (inside the living organism) characteristics, i.e. reflections of a constantly changing environment within a living organism. The report can offer underlying general nutritional information based on the phenotypic information obtained from the hair scan. Epigenetic Mapping provides a dynamic look at how the body has responded to its environment over a period of time. These reports are different from typical blood and urine measurements, which only provide an assessment at a single point in time.

Cell Wellbeing's in vivo Epigenetic Mapping is similar to taking ambulatory blood pressure readings over 24 hours. The S Drive however, does it over 90 days as nutritional and environmental changes occur slowly. Epigenetic Mapping reports are ideally generated from 4 readings taken 90 days apart to provide a complete picture of changes that take place over the year. Therefor each individual report is a starting point to provide dietary, nutritional and lifestyle directions for the next 90 days, based on Epigenetic indicators.

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