

DNA Vault – Long Term DNA Storage



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Setting the Standard for Quality DNA Identification

Knowing DNA

DNA is the alphabet of life and defines the essence of our individuality. Despite the magnitude of the human genome, over 3.2 billion letters, 99.9% of the DNA in all unrelated people in the world is identical. Thus, the vast differences observed in the human race are created from the minute differences in only 0.1% of DNA. An individual's DNA can contain valuable information to help the lives of present and future generations. Locked in our DNA code are the secrets of our ancestry and medical conditions that scientists are only now beginning to understand.



The power of DNA has emerged as a mainstream tool in modern human identification. Knowing your DNA has magnificent and unparalleled applications in modern society.

- **Paternity**
- **Relationship Testing**
- **Ancestry**
- **Immigration**
- **Forensics**
- **Adoption**
- **Estate Planning**
- **Missing Persons**

DNA Vault Technology

DNA Vault is designed for the long term preservation and storage of human DNA. DNA Vault uses SampleMatrix, a technology that mimics the natural principles of anhydrobiosis, which means “life without water”. Anhydrobiosis is a biological process that enables multicellular organisms to survive in a dry state for periods over 100 years. During extended periods of desiccation, proteins, DNA and cellular systems are protected and can be revived by rehydration. The technology in DNA Vault forms a protective seal around DNA as it dries. DNA preserved with the DNA Vault technology can be safely stored for extended periods of time at room temperature. Accelerated ageing studies indicate that DNA treated with this process is stable for at least 11 years and probably significantly longer.



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