



>> Elucedata is a detection technology business that delivers powerful solutions for product and brand protection, biological & chemical testing (including pathogens) and other industrial processes. Elucedata technologies enable the protection of supply chains to ensure consumer safety and stakeholder revenues and are tailored by our team of industry experts to provide pragmatic, practical solutions that are deployable on-product and/or in-product. <<

#### Security Materials:

##### SecuriTagg™

SecuriTagg™ is our High Security authentication option that provides a unique response to our detectors and our detectors alone. Working in combination with either our R1+ or R2 readers, this system is designed to provide a "Lock and Key" approach for an extra level of Security and utilises a different chemistry to our MicroTagg™ materials. Used in applications ranging for product & brand authentication to secure documents, SecuriTagg™ materials are available in a number of options - including custom - please Contact Us to learn more.

##### MicroTagg™

MicroTagg™ materials are up-converting phosphor materials that are readily incorporated into polymeric and other matrices. When irradiated with energy of a specific wavelength, the particles absorb the energy and re-emit it in a different part of the electromagnetic spectrum. Used in applications ranging for brand security and product authentication to machine verification and quality control, MicroTagg™ materials are available with a number of emission responses, please Contact us to learn more.

##### DNATagg™

Our family of Forensic Markers includes unique 'non-viable' deoxyribonucleic acid strands that are synthetically manufactured to ensure that they are "mathematically impossible" to reproduce. DNATagg™ material can be applied to batches produced by date, sub-batches destined for different production facilities or end uses by client. The laboratory test can be completed in less than 48 hours and is conducted using a "double-blind" system to ensure client confidentiality.

#### Detection Technologies:

**R-Series Taggant Readers** - The Reveal™ range of readers are designed to work in tandem with our MicroTagg™ and SecuriTagg™ inorganic taggant materials. All readers are configured and carefully logged.

**R1** - The R1 detector is our entry-level machine readable device. With LED and audible responses programmable to customer requirements, the R1 is designed to work with our MicroTagg™ materials.

**R1+** - The R1+ detector shares the same housing as the R1, but is also capable of reading our SecuriTagg™ materials, providing a "lock & key" combination for greater security.

**R2** - The R2 detector is our most advanced handheld detection unit and can identify different levels of taggant loading, differentiate between taggants and read multiple signals.

**E-Sens Readers** - Our E-Sens™ detectors are rapid test devices based on biosensors capable of analysing materials to identify specific "biological" markers.

**E-Sens IDS (Ingredient Detection System)** - The overall IDS solution utilises the E-Sens detector (which controls a combination of biological and electronic amplification cycles) in combination with an electrode that been customised by our Scientists to facilitate the specific reactions of interest. Not only can this determine the presence of key ingredients, but also concentrations, so in addition to straight forward counterfeiting, it can also identify when products have been adulterated.

**Please contact us to learn more.**



Protection by Detection™

### Security Materials:

#### SecuriTagg™

SecuriTagg™ is our High Security authentication option that provides a unique response to our detectors and our detectors alone. Working in combination with either our R1+ or R2 readers, this system is designed to provide a "Lock and Key" approach for an extra level of Security and utilises a different chemistry to our MicroTagg™ materials. Used in applications ranging for product & brand authentication to secure documents, SecuriTagg™ materials are available in a number of options - including custom - please Contact Us to learn more.

#### MicroTagg™

MicroTagg™ materials are up-converting phosphor materials that are readily incorporated into polymeric and other matrices. When irradiated with energy of a specific wavelength, the particles absorb the energy and re-emit it in a different part of the electromagnetic spectrum. Used in applications ranging for brand security and product authentication to machine verification and quality control, MicroTagg™ materials are available with a number of emission responses, please Contact us to learn more.

#### DNATagg™

Our family of Forensic Markers includes unique 'non-viable' deoxyribonucleic acid strands that are synthetically manufactured to ensure that they are "mathematically impossible" to reproduce. DNATagg™ material can be applied to batches produced by date, sub-batches destined for different production facilities or end uses by client. The laboratory test can be completed in less than 48 hours and is conducted using a "double-blind" system to ensure client confidentiality.



>> Eluceda is a detection technology business that delivers powerful solutions for product and brand protection, biological & chemical testing (including pathogens) and other industrial processes. Eluceda technologies enable the protection of supply chains to ensure consumer safety and stakeholder revenues and are tailored by our team of industry experts to provide pragmatic, practical solutions that are deployable on-product and/or in-product. <<

### Detection Technologies:

**R-Series Taggant Readers** - The Reveal™ range of readers are designed to work in tandem with our MicroTagg™ and Securitagg™ inorganic taggant materials. All readers are configured and carefully logged.

**R1** - The R1 detector is our entry-level machine readable device. With LED and audible responses programmable to customer requirements, the R1 is designed to work with our MicroTagg™ materials.

**R1+** - The R1+ detector shares the same housing as the R1, but is also capable of reading our SecuriTagg™ materials, providing a "lock & key" combination for greater security.

**R2** - The R2 detector is our most advanced handheld detection unit and can identify different levels of taggant loading, differentiate between taggants and read multiple signals.

**E-Sens Readers** - Our E-Sens™ detectors are rapid test devices based on biosensors capable of analysing materials to identify specific "biological" markers.

**E-Sens IDS (Ingredient Detection System)** - The overall IDS solution utilises the E-Sens detector (which controls a combination of biological and electronic amplification cycles) in combination with an electrode that has been customised by our Scientists to facilitate the specific reactions of interest. Not only can this determine the presence of key ingredients, but also concentrations, so in addition to straight forward counterfeiting, it can also identify when products have been adulterated.

Please contact us to learn more.

Protection by Detection™