





#### 6 MONTHS

- · HUMID
- · HIGH TEMP
- EXPOSED

# CONDITIONAL TIMELINE

#### **IDEAL CONDITIONS**

High UV exposure, heat, humidity and availability of microorganisms.

#### **42 MONTHS**

- · DRY
- LOW TEMP
- SUBTERRANEAN

#### **POOR CONDITIONS**

Low UV exposure, heat, humidity and availability of microorganisms.

450+ YEARS
PP & PE WITHOUT ECLIPSE



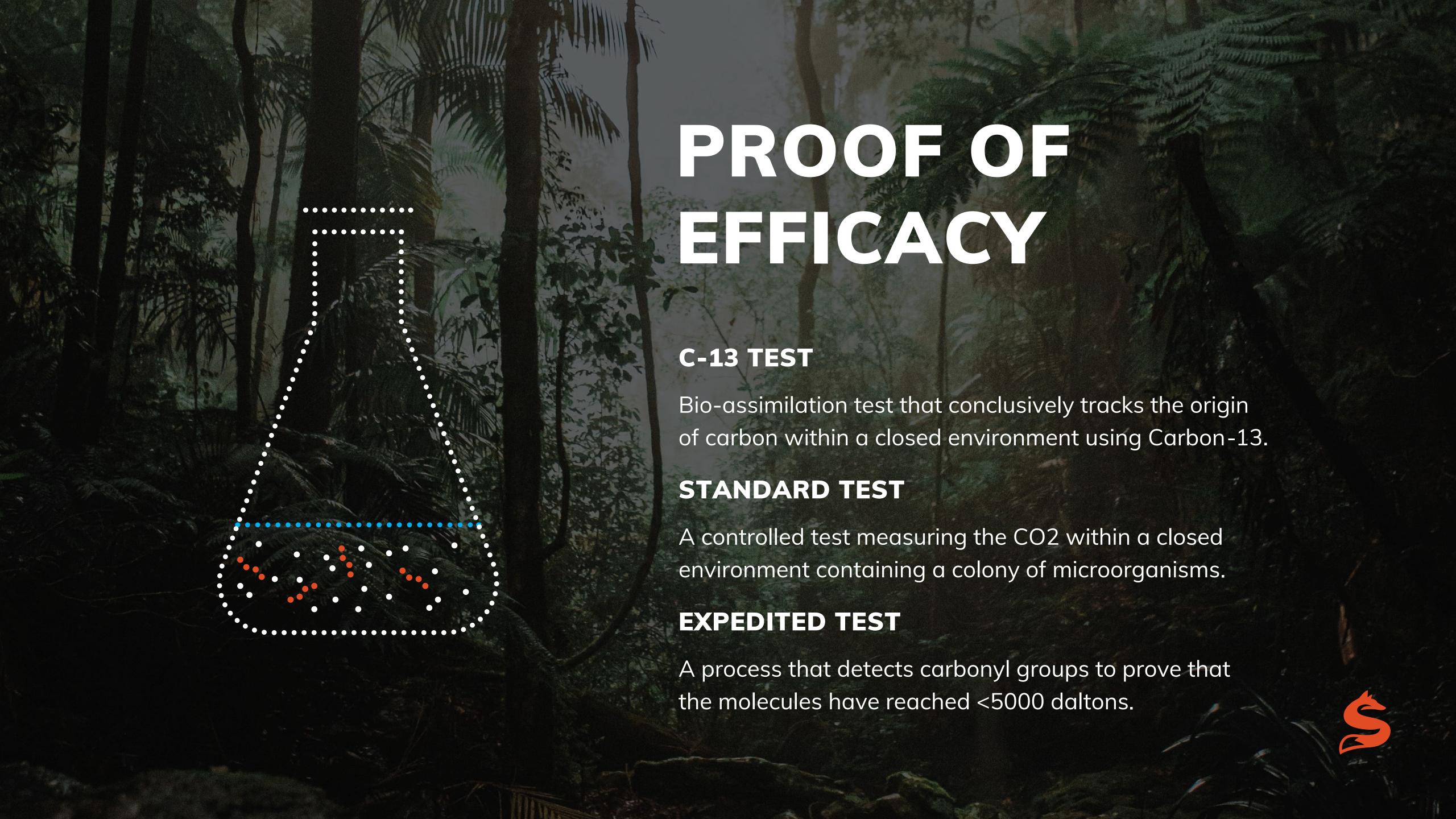












#### LANDFILL MANAGEMENT

### Proven Technology

It is conclusively proven that ECLIPSE™ will bio-assimilate as demonstrated by ASTM testing and C-13 carbon labelling. When it comes to disposal in landfill, ASTM D5526 compliance confirms biodegradation in an anaerobic environment.

#### LANDFILL MANAGEMENT

### Rapid Bio-assimilation

Any packaging, bags or sacks will rapidly lose their mechanical properties, permitting putrescible waste to rapidly biodegrade. The plastic itself will quickly decrease in molecular mass, dropping from a typical 200,000 Da to sub-5000 Da. The decreased molecular mass significantly increases surface area, encouraging a close knit, dense agglomeration of material.

#### LANDFILL MANAGEMENT

### Efficient Utilization

Landfill operators want an efficient utilization of any landfill site, without any 'caverns' or spaces wasting valuable cubic capacity. If all biodegradable waste is encouraged to process in the anaerobic zone, methane is an inevitable by-product. In properly managed landfills, methane collection is a benefit both environmentally and financially. ECLIPSE<sup>TM</sup> will condense voluminous materials, enabling landfills to utilize space 50–80% more efficiently.

#### ECLIPSE™ MESSAGING GUIDELINES

### Recyclability First

First and foremost, all ECLIPSE<sup>TM</sup> enabled materials are intended to be recycled. The ability to bio-assimilate is by no means designed to encourage incorrect disposal, as all waste is potentially harmful to the environment. ECLIPSE<sup>TM</sup> represents a critical safety net in case a product evades the recycling system.

#### ECLIPSE™ MESSAGING GUIDELINES

### Responsible Communication

While ECLIPSE<sup>TM</sup> enabled products will completely bio-assimilate,

we don't want our customers labelling their products as

"biodegradable". This term will inherently encourage consumers to dispose of products, washing them of any guilt. Additionally, state-by-state legislation is in place to discourage labelling plastic products as "biodegradable" for this very reason.

#### ECLIPSE™ MESSAGING GUIDELINES

## We are a sustainability company

Smart Plastic is a sustainability company, full-stop. We believe in doing what's best for the environment, and that includes messaging that encourages sustainable behavior. We are here to support our customers on their sustainability journey, and that includes crafting a message that adheres to legislation and our values as a sustainably driven company.

