

**Key words:** Environmental, Clinical, Forensic / DOA, Food, Agrochem, Bioanalytical, Med Chem., General

**TELOS ENV is a polymer-based SPE** product that provides analytical scientists with the tools to extract polar, water soluble analytes from a range of aqueous (environmental and biological) matrices due to its high capacity, excellent flow characteristics and pH stability.

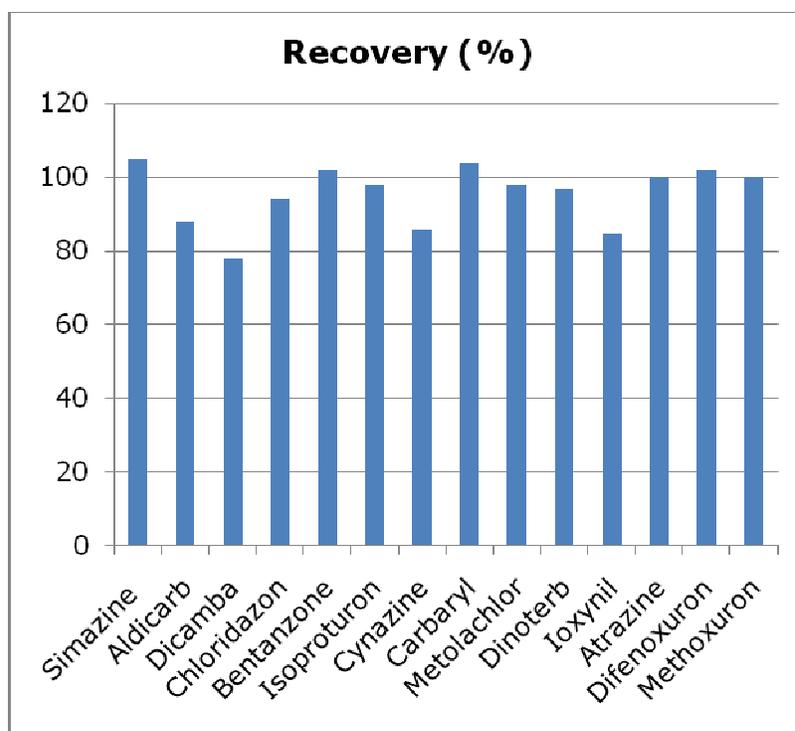
**Product overview:**

- TELOS ENV SPE Columns are designed for the extraction of polar, water soluble analytes from aqueous samples
- Polymer-based, water wettable SPE sorbent with excellent retention characteristics, making it ideal for the extraction of very polar compounds that often do not retain well on silica-based non-polar and some polymeric sorbents (see later)



**Advantages:**

- High reproducible recoveries of polar analytes are provided by the optimised surface chemistry and high surface area
  - Data is taken from *TELOS ENV Application Note ENV601 Extraction of Polar Analytes from Water*



- Suitable for a wide range of matrices due to excellent flow characteristics and pH 1-14 stability

### Applications

- Environmental Analysis
  - Water and soil testing labs looking for pesticides, herbicides in aqueous samples;
  - Could be specialising in certain matrices. Final sample (prior to SPE) must be aqueous if testing a solid / soil sample.

Prompt	Recommendation(s)
Do you experience low / variable analyte recovery for some of the more polar analytes, such as Phenols, Acid Herbicides and Organophosphorous Pesticides in current methods?	TELOS ENV SPE Columns are highly retentive with an optimised chemistry and high surface area, providing reliable results for polar water soluble analytes.
Have any seen any issues with product quality? For instance, do you observe uneven flow at any stage of the SPE method? If so, does this affect your analyte recovery (have you checked?).	TELOS ENV SPE Columns are water-wettable, with an optimised Particle Size Distribution, and packing technique to ensure good flow characteristics, regardless of sample volume. For most large volume water samples, the 200mg/6ml is recommended. We also have 100 and 200mg/3ml columns for smaller sample volumes.
Are you likely to develop any new methods for challenging / polar analytes?	Obtain full details of the analytes, detection limited, analytical method etc
Do you have any current methods using polystyrene based SPE column which are due for re-validation?	Try using TELOS ENV with an appropriate column configuration
Do you have any experience with products such as ISOLUTE ENV+, Strata X, Oasis HLB?	Try using TELOS ENV with an appropriate column configuration

- Forensic, Toxicology and Clinical
  - Analytical labs testing biological fluids and other aqueous samples for parent drug and metabolites, toxicology screening, polar drugs, biomarkers, etc.
  - Scientists working in method development or heads of departments for Hospital services such as drug screening.

Prompt	Recommendation(s)
Are you experiencing unreliable analyte recoveries for polar analytes such as Drug Metabolites from aqueous matrices?	TELOS ENV SPE Columns are highly retentive due to optimised chemistry and high surface area, providing reliable results for polar water soluble analytes
Have any seen any issues with product quality? For instance, do you observe uneven flow at any stage of the SPE method? If so, does this affect your analyte recovery (have you checked?).	TELOS ENV SPE Columns are water-wettable, with an optimised Particle Size Distribution, and packing technique to ensure good flow characteristics, regardless of sample volume. The 3ml column is recommended for most applications, but we also offer a 6ml format for particularly difficult (viscous) matrices that require additional dilution.
Are you likely to develop any new methods for challenging / polar analytes?	Obtain full details of the analytes, detection limited, analytical method etc
Do you have any current methods using polystyrene based SPE column which are due for re-validation?	Try using TELOS ENV with an appropriate column configuration
Do you have any experience with products such as ISOLUTE ENV+, Strata X, Oasis HLB?	Try using TELOS ENV with an appropriate column configuration

### Certificate of Analysis

- Initially through PM
- Will be available within product in due course
- Full traceability through lot number

## Certificate of Analysis

Product Description: TELOS™ ENV 200mg/3ml SPE Columns

<b>Part Number</b>	<b>Lot Number</b>
690-200M-003T	testlotnumber

Material Tests	
Surface Area	x m <sup>2</sup> /g
Particle Size Distribution 43-123 µm <43 µm	xx xx
Particle Diameter Distribution d <sub>10</sub> d <sub>50</sub> d <sub>90</sub>	xxµm xxµm xxµm
Pore Diameter	xxnm
Pore Volume	
Extraction Residue with Methanol	xx%

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## Product Details

Part Number	Description
690-100M-003T	TELOS ENV 100mg/3ml SPE Columns (PK/50)
690-200M-003T	TELOS ENV 200mg/3ml SPE Columns (PK/50)
690-200M-006T	TELOS ENV 200mg/6ml SPE Columns (PK/30)