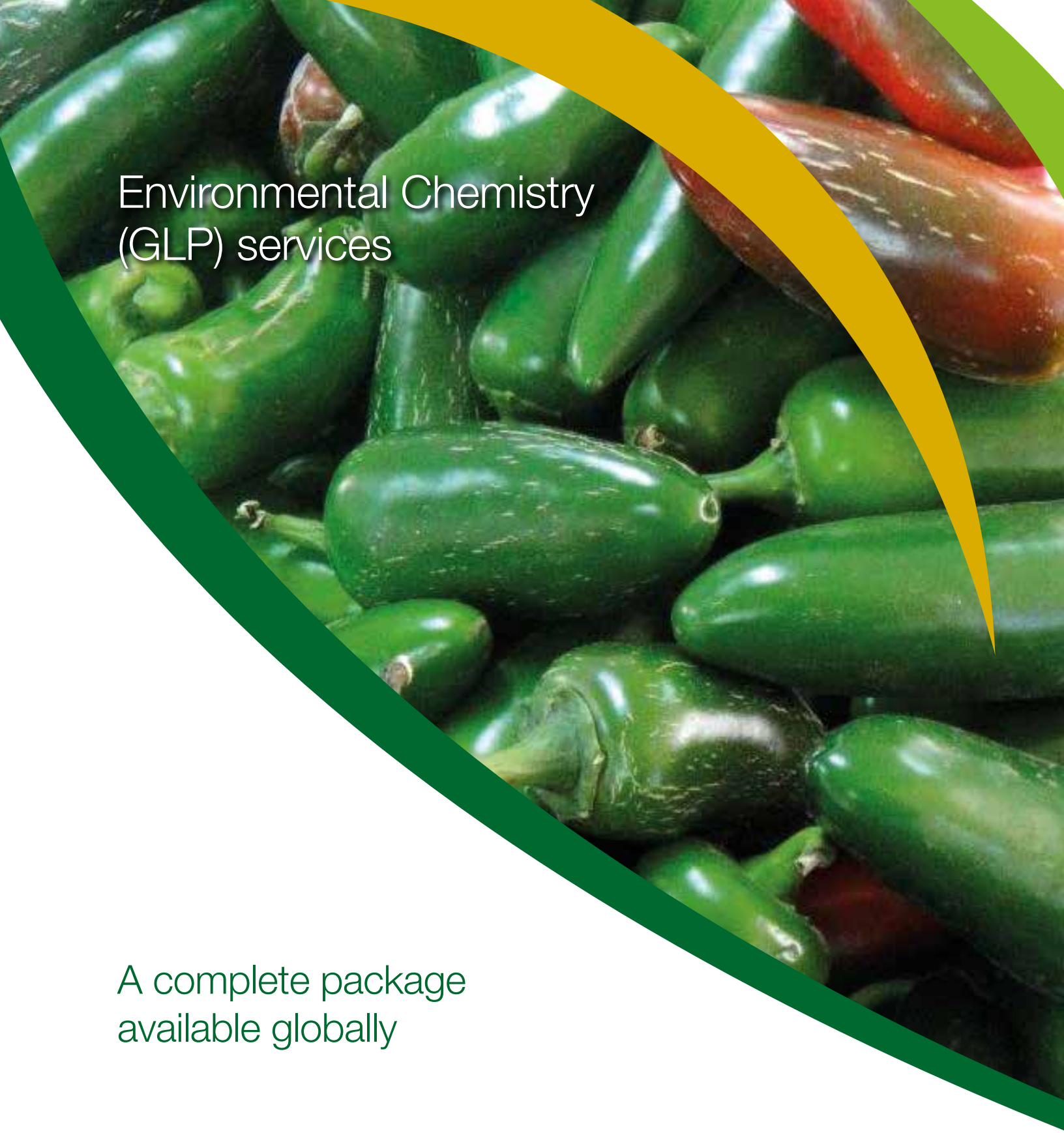

Environmental Chemistry (GLP) services

A complete package available globally

SynTech® Research

www.syntechresearch.com

Environmental chemistry (GLP) services

With its global field station network, and SynTech Research Laboratory Services, Kansas, USA, SynTech is able to offer a complete program including protocol development, field trial conduct, sample analysis and report writing.

Program management

Experienced SRLS staff compliment SynTech's field-phase study directorship capabilities, providing total management of design, field, laboratory and reporting phases for GLP residue and environmental programs. GLP residues studies are managed from the US or EU and can be conducted throughout the US, the EU, Canada and most Latin American and Asian countries.

Residues study types

- Crop residue and field dissipation
- Post harvest residues
- Residue reduction studies – cooking and washing procedures
- Import tolerances

Field trials

SynTech's global network of field trial facilities in 29 countries ensures comprehensive coverage of all key crops and provides timely delivery of high quality studies. SynTech's agronomists perform a range of field, greenhouse and laboratory GEP and GLP tests to determine the dissipation, residue and acute and chronic effects of all classes of pesticide chemistry on organisms.

Regional / federal, state and country programs required for registration are designed and managed according to the EPA, PMRA, OECD, JMAFF, INMETRO, Latin America and Asia authorities.

Soil accumulation/dissipation

- Short-term single soil-type, shallow samples
- Long-term studies, range of soils, 1m samples

Dislodgeable foliar residues

- Whole leaf sampling
- Hole-punch sampling

Sample preparation / processing

- Crop and soil sample processing / homogenization
- Cooking studies to determine the fate of crop residues in food preparation
- Robot Coups for crop processing
- Hammer-mill for soil preparation
- Freezer storage space for bulk and prepared residue samples

Analytical capability

Laboratory capacity, experienced chemists and state-of-the-art equipment (LC / MS / MS instruments) for fast and accurate analysis:

- Analysis of samples from crop, animal and environmental studies, including ecotoxicology
- Laboratory guideline studies including:
  - Method development and validation
  - Method refinement for new crop matrices
  - Independent laboratory validation (ILV)
  - Freezer storage stability
  - Multi-residue method assessment
  - Protein expression for GMO programs

Quality assurance

Our experienced team of qualified QA personnel can provide consultancy services globally for in-life field audits, laboratory and field / analytical reports and site inspections.

Post-harvest services

Yield and quality evaluations

- Solids, starch, acidity, minerals
- Yield, size, weight, firmness and color
- Pre-and post-cold storage assessments

Processing phase

- Desiccation, concentrates and juice
- Vinification
- Oil production

Locations

SynTech Research has field trial capabilities worldwide.

The SynTech network of testing facilities in 29 countries in the Americas, Europe and Asia, many with multiple locations or satellite facilities, ensure coverage of all key crops and targets. The provision of locations in both hemispheres allows testing of crop lines year-round, considerably reducing development timescales.

For further information visit
www.syntechresearch.com
or email enquiries@syntechresearch.com

SynTech Research

Expert services delivering competitive advantage

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