

The 45% Nutrient Uptake Multiplier

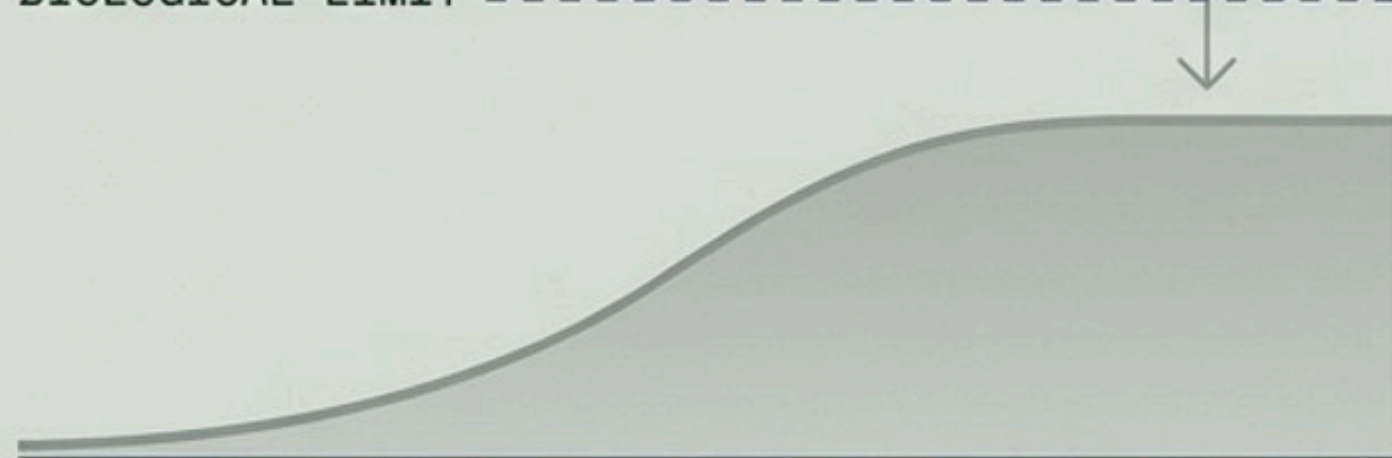
Clinical Validation and
Commercial Integration
Dossier for the GPL-37 Chain
Reaction Adjuvant.



Overcoming the Biological Uptake Ceiling

Conventional Fertilizer Application

BIOLOGICAL LIMIT



3% to 15% Maximum Uptake

Most standalone fertilizers hit a hard biological limit, leaving the vast majority of nutrients unabsorbed by the plant system.

The GPL-37 Enhanced Application



39% to 52% Nutrient Uptake

By introducing the GPL-37 adjuvant, nutrient absorption is multiplied, proving the core hypothesis: a single synergistic agent creates compounding effects.

The **1+1≠2** Paradigm

Technical Grade Synergist (Item #HS-9412)



Global Certifications

Meets EU and UK Organic Standards.

AQIS Permit No. IP11008205
(Australian Gov, Dept of Agriculture); U.K. Permit
OF&G Regn No. UKE0540.



Universal Compatibility

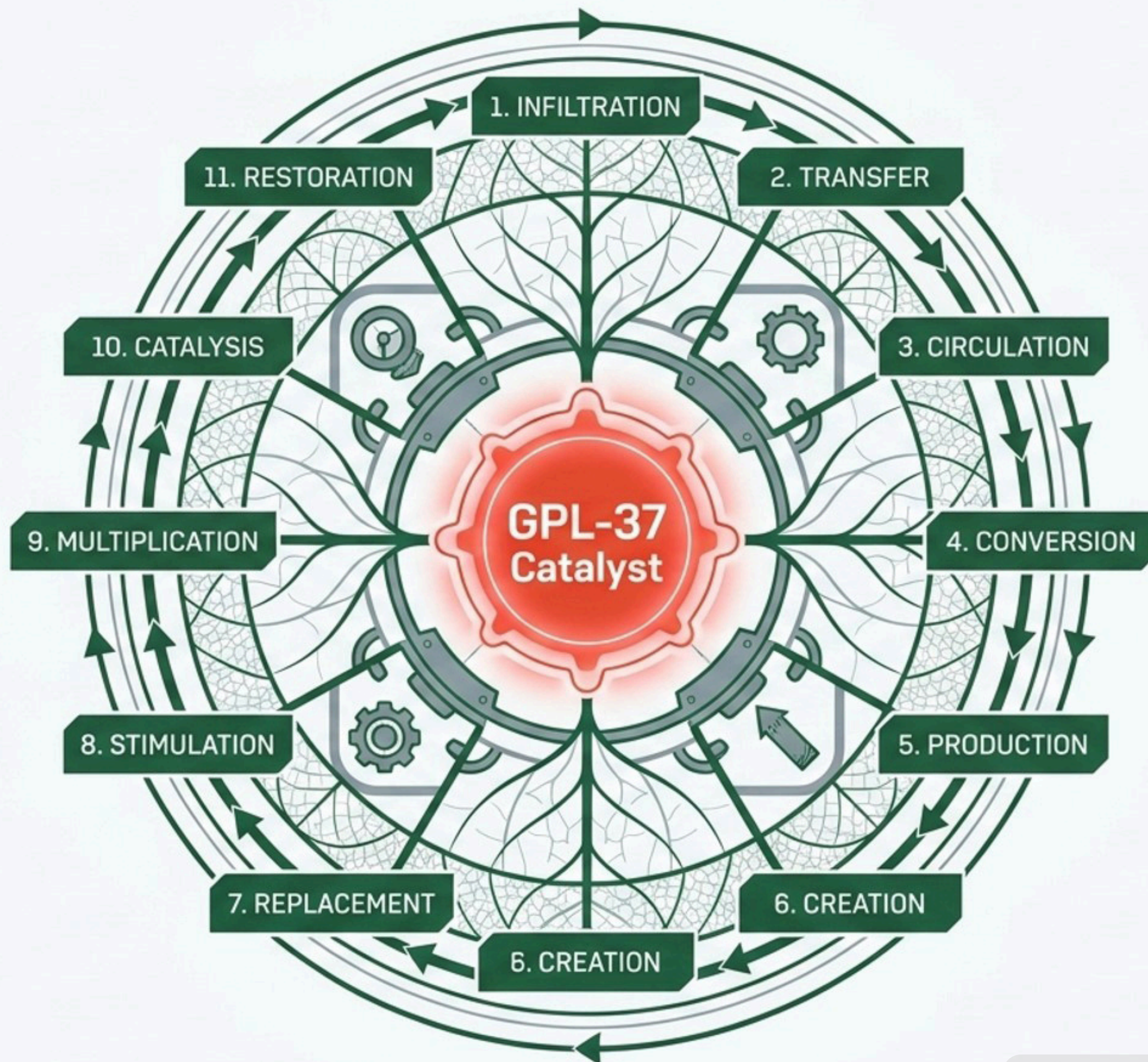
Formulated for seamless mixing with NPK, Urea, and Humate. Highly effective for advanced hydroponic farming.



Commercial White-Labeling

Designed to be integrated directly into proprietary fertilizer blends under independent brand names, boosting efficacy without disrupting existing product lines.

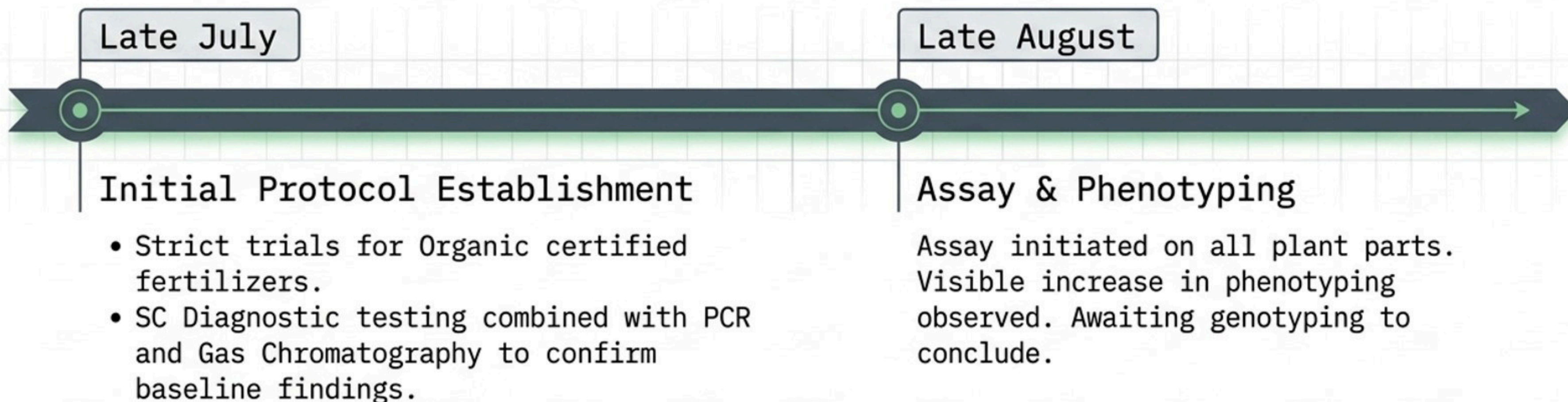
The 11-Stage Chain Reaction Engine



GPL-37 acts as a **biological guide**. It intercepts various fertilizers (e.g., NPK, Urea) and actively leads all nutrient factors into a self-sustaining **chain reaction** process.

Independent Validation: The Canadian Protocols

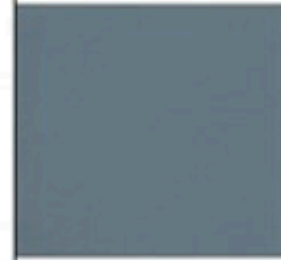
Supervised by Dr. Michael Mangan, leading agricultural engineer, tracking GPL-37 integration down to the plant DNA level.



"I sense that what I have invented will work well with your products... we need to make sure our PCR and Gas Chrom all confirm findings before we upscale." — Dr. Mangan

The Breakthrough Yield Data

Baseline Nutrient Uptake
(Tomato plants on standard
fertilizer alone) = 12% Increase.



Synergized Nutrient Uptake
(Combined with GPL-37 /
GrowBigTea™) = 45% Increase.



Clinical Next Steps

- Wet chemistry testing completed.
- Secondary testing approved for artificial light greenhouse environments.
- Six-month confidential plant DNA genotyping initiated.



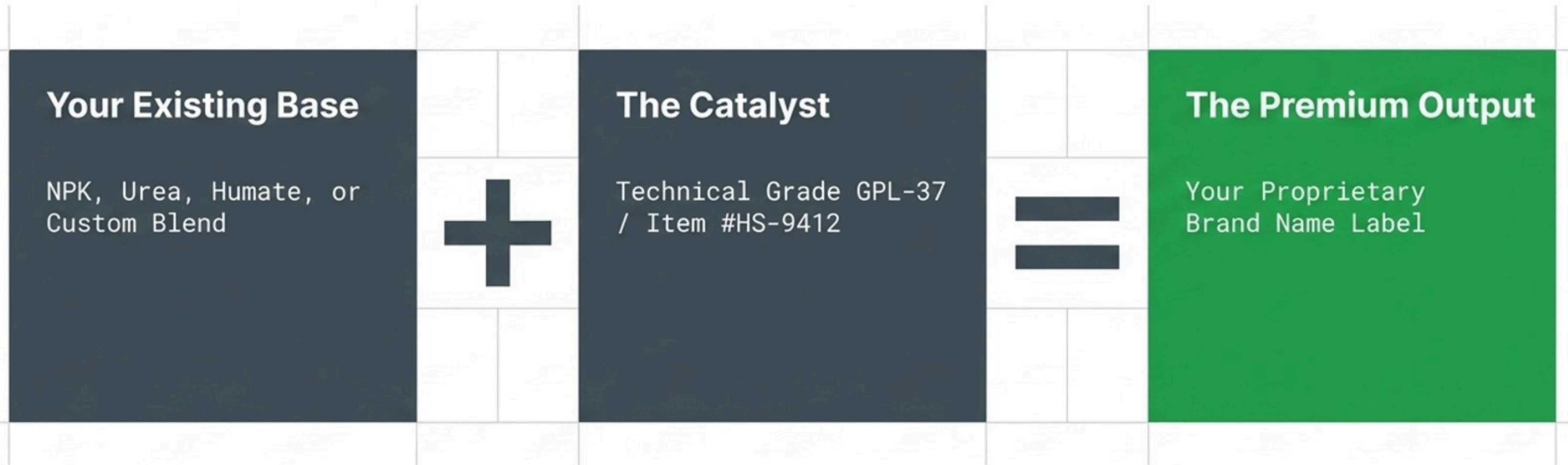
"12% increase in nutrient uptake... on its own. However when combined... it was 45% uptake which was amazing."

— Mid-September Trial Results

The Adjuvant Synergist Matrix

	Conventional Fertilizer Application	GPL-37 Enhanced Application
Nutrient Uptake Rate	Biological ceiling at 3-15% maximum.	Multiplied to 39-52% (45% in clinical trials).
Mechanism of Action	Single-action nutrient deposit.	11-stage autonomous chain reaction.
Biological Role	Standalone nutrient supply.	Biological guide and synergist (Adjuvant).
Output Synergy	Linear ($1+1=2$).	Exponential ($1+1\neq 2$).

Commercial Integration Model



Flexible Form Factor

Available for both granular and liquid fertilizer production.

Customizable Ratios

Combine methods and percentage rates are entirely calibrated to the manufacturer's specific requirements.

Market Positioning

Elevates standard blends into premium, high-value organic certified products.

Play to Win. Partner with Nature.

The future of global agriculture relies on the intersection of biological science and environmental stewardship. **Growing-Up INTL Corp** provides the definitive, zero-compromise solution for sustainable crop management.

Contact & Partnership Hub

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