

# The Basics of Monty's ProtoColl Technology

THE BENEFITS OF MONTY'S NEXT GENERATION TECHNOLOGY OF FERTILITY AND NUTRIENT MANAGEMENT

**1. What problems does ProtoColl solve?** ProtoColl addresses nutrient imbalance, nitrogen loss, limited potassium and phosphorus mobility, and salt damage commonly seen with conventional starter fertilizers, while offering a balanced solution that supports soil health and early crop growth.

**2. Can I use less NPK products than I have in the past?** Yes. ProtoColl's unique technology can reduce the amount of liquid and/or dry NPK applied throughout the season. Soil and tissue testing throughout the season will help determine the actual amount of NPK needed.

**3. What makes ProtoColl a hybrid solution?** ProtoColl combines the benefits of both solid and liquid fertilizers, delivering both immediate nutrient availability and sustained release, thus bridging the gap between these two types.

**4. How does ProtoColl improve environmental sustainability?** By stabilizing nutrients like N, P, and K in the soil, ProtoColl reduces ammonia volatilization, nutrient runoff, and nitrate leaching, which protects water resources and enhances nutrient use efficiency.

**5. What are the key components in ProtoColl that benefit crops?** ProtoColl contains bundled micro-droplets (micelles) of PEBs (Polyelectrolyte Enhanced Biopolymers) and essential nutrients in a dispersion medium, ensuring rapid nutrient uptake and prolonged availability in the soil.

**6. What results have been observed from ProtoColl research trials?** Research trials and grower field trials across the United States have shown ProtoColl significantly increases crop yields by as much as 25%, highlighting its effectiveness and consistency in diverse conditions.

**7. Does ProtoColl system have a natural structure?** Yes. Monty's ProtoColl System consists of bundled, micro-droplets (micelles) of nutrients encapsulated by PEBs. The PEBs are naturally formed synergic structures that multiply the benefits of native humic molecules – maximizing the nutrients availability to the plant.

**8. How does ProtoColl support early-stage plant growth?** ProtoColl promotes strong root systems and robust early crop growth by delivering a balanced profile of macronutrients in both fast-acting and slow-release forms.

**9. Is ProtoColl adaptable to different soil types?** Yes, ProtoColl's hybrid formulation works well across diverse soil types, reducing nutrient losses in both clay-heavy and sandy soils by mitigating issues like nutrient fixation and leaching.

**10. How does ProtoColl respond to climate stressors like drought?** ProtoColl provides immediate nutrients through its liquid component, while the solid portion ensures longer-term nutrient and water availability, which helps crops withstand drought, irregular rainfall and other negative weather conditions.

**11. Can ProtoColl be used with precision farming equipment?** Yes, ProtoColl is compatible with precision agriculture tools, allowing for efficient and targeted nutrient placement near seeds using planters and sprayers in advanced farming systems.

**12. Does ProtoColl require special storage or handling?** ProtoColl may experience natural settling over time like many other agricultural products, but can be agitated with light stirring, ensuring ease of use without affecting performance. For specific storage and handling information, refer to the SDS or talk to your Monty's representative.



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