



# **SQM protected minerals™**

**Feed less, get more™**



# SQM protected minerals™

## Feed less, get more™

**Higher bioavailability** means you can feed less minerals (and waste less!), which helps you to streamline costs while increasing flexibility in your nutritional program.

**Our TraceTrax™ process** ensures high quality at every step—from ingredient sourcing to manufacturing to packaging to delivery.

OPTIMIZED PERFORMANCE

LOWER INCLUSION RATES

PROVEN BIOAVAILABILITY  
(PolyTransport™ technology)

SUPERIOR QUALITY & ENGINEERING  
(TraceTrax™)

SQM PROTECTED MINERALS™

It all adds up to a strategy designed to **optimize bird performance** in every metric—from feed efficiency to egg quality, from immunity to reproduction, from environmental impact to bottom-line profitability.

**QualiTech's proprietary PolyTransport™ technology** provides improved bioavailability of trace minerals by ensuring they stay protected until they are ready for absorption.

**SQM protected minerals™** serve as the very foundation for optimized bird performance, providing essential trace minerals via a unique technology that ensures superior bioavailability.

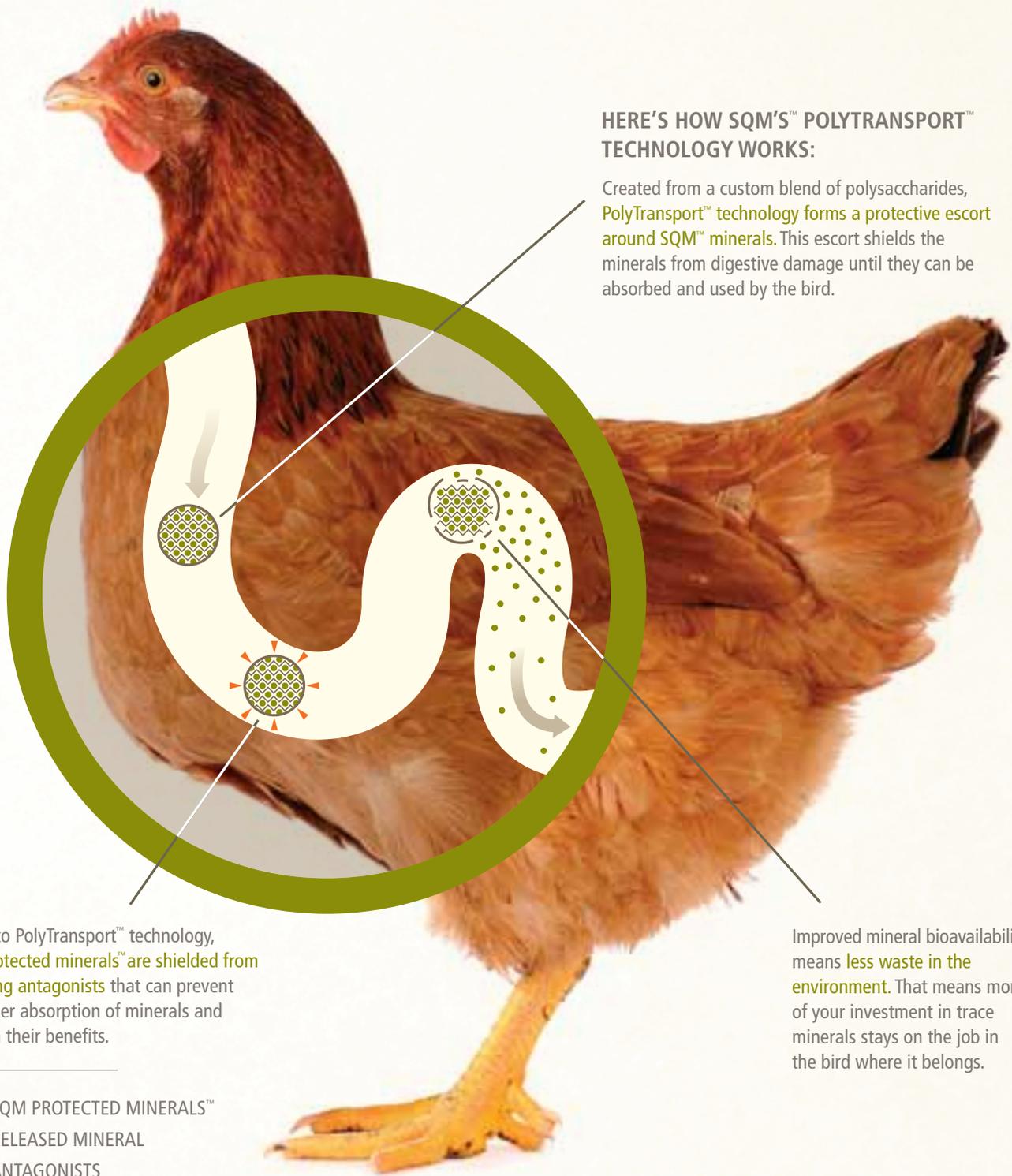
# Thanks to PolyTransport™ technology, SQM protected minerals™ get used—not wasted.

Bioavailability is an absolute difference-maker with SQM protected minerals™. Our proprietary PolyTransport™ technology uses an **innovative polysaccharide complexation process** which preserves the integrity of SQM protected minerals™ until they reach their absorption site in the bird's small intestine.

PolyTransport™ technology escorts SQM protected minerals™ through the bird's digestive tract — successfully **protecting them against antagonists** and digestive damage until they reach the small intestine, at which point they are released and absorbed.

PolyTransport™ technology is a powerful tool for managing not only the nutrition of your birds, but the overall economics of your operation as well. Your investment in SQM protected minerals™ can pay big dividends in terms of **key measures of bird performance**.

With PolyTransport™ technology, we're not just doing organic trace minerals differently. **We're doing them better.**



**HERE'S HOW SQM'S™ POLYTRANSPORT™ TECHNOLOGY WORKS:**

Created from a custom blend of polysaccharides, PolyTransport™ technology forms a protective escort around SQM™ minerals. This escort shields the minerals from digestive damage until they can be absorbed and used by the bird.

Thanks to PolyTransport™ technology, SQM protected minerals™ are shielded from damaging antagonists that can prevent or hamper absorption of minerals and diminish their benefits.

Improved mineral bioavailability means less waste in the environment. That means more of your investment in trace minerals stays on the job in the bird where it belongs.

-  SQM PROTECTED MINERALS™
-  RELEASED MINERAL
-  ANTAGONISTS

# SQM protected minerals™ Helping you think well beyond zinc.

Say “organic trace mineral” and most people automatically think “zinc.” Yes, organic zinc is a key component of the SQM protected minerals™ portfolio.

**But there is so much more.**

Copper. Manganese. Iron. Critical trace minerals that matter to the health and performance of your birds.

The interaction and balance of these trace minerals is complex. At QualiTech, we’ve spent decades improving the quality, efficacy and bioavailability of animal nutrition products. The innovation and science behind SQM protected minerals™ for poultry are some of the outcomes.

Adding SQM protected minerals™ with PolyTransport™ technology to your nutrition program **amplifies the benefits of organic trace minerals** in your operation. With SQM™ products, an integrated package of high quality organic trace minerals does the job it is intended to do — helping support overall bird performance in a variety of ways.

QualiTech innovation has created an effective way of protecting trace minerals in their challenging journey from feed processing to absorption by the bird.

That’s the power of **SQM protected minerals™**.

## How trace minerals benefit poultry

Mineral	Function
Copper and Zinc	Skin/Feathers
Copper, Manganese, Zinc	Bone Structure/Egg Shell
Copper, Manganese, Zinc	Reproduction
Copper, Manganese, Zinc	Immunity
Copper, Manganese, Zinc	Digestion

## Lower inclusion levels lead to **bottom line** performance.

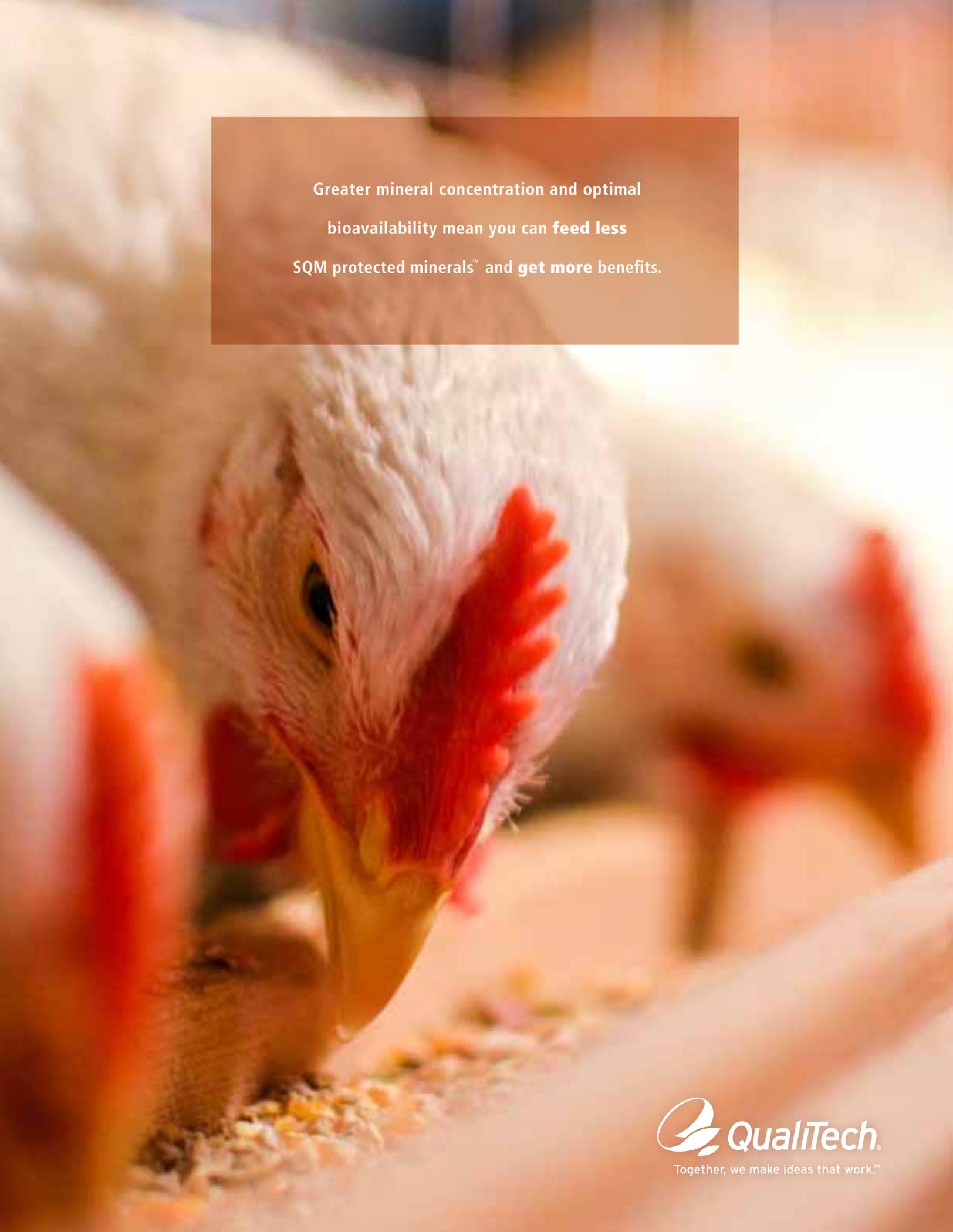
Thanks to greater mineral concentration and optimal bioavailability, you can **feed lower levels** of SQM protected minerals™ which can help optimize your return on investment.

**But that's not all.** The ability to feed lower levels of SQM protected minerals™ also leads to these benefits:

- Fewer bags to transport, store and handle in your facility — improving logistics and reducing transportation costs
- The potential to use a single micronutrient package in your nutritional program
- More “space” in your formulation to incorporate other nutrients
- Reduced environmental impact thanks to improved mineral utilization in the bird

In other words, with SQM protected minerals™, you can **Feed Less, Get More.**™

These quantifiable benefits are powerful reasons to invest in SQM protected minerals™. Just as importantly, your investment in SQM™ products can continue to pay dividends as you incorporate SQM protected minerals™ into your poultry operation.



Greater mineral concentration and optimal  
bioavailability mean you can **feed less**  
SQM protected minerals™ and **get more** benefits.

# Supporting key performance indicators for poultry production.

The innovation and increased bioavailability of SQM protected minerals™ can have a direct impact on the performance of your birds.

But QualiTech has gone **well beyond bird nutrition.**

SQM protected minerals™—and our proprietary PolyTransport™ technology—are designed to **support key factors** that are critical to poultry production including:

- Maximum feed conversion
- Healthy, high-performing birds
- Strong immune function to support reduced antibiotic use
- Effective reproduction performance
- Optimum egg production and egg shell quality
- Reduced carbon footprint and environmental impact
- Maximized margins and profitability

SQM protected minerals™ can help optimize  
**fundamental performance indicators**  
such as egg production and egg quality.

# Making a positive impact on bird performance – and the environment.

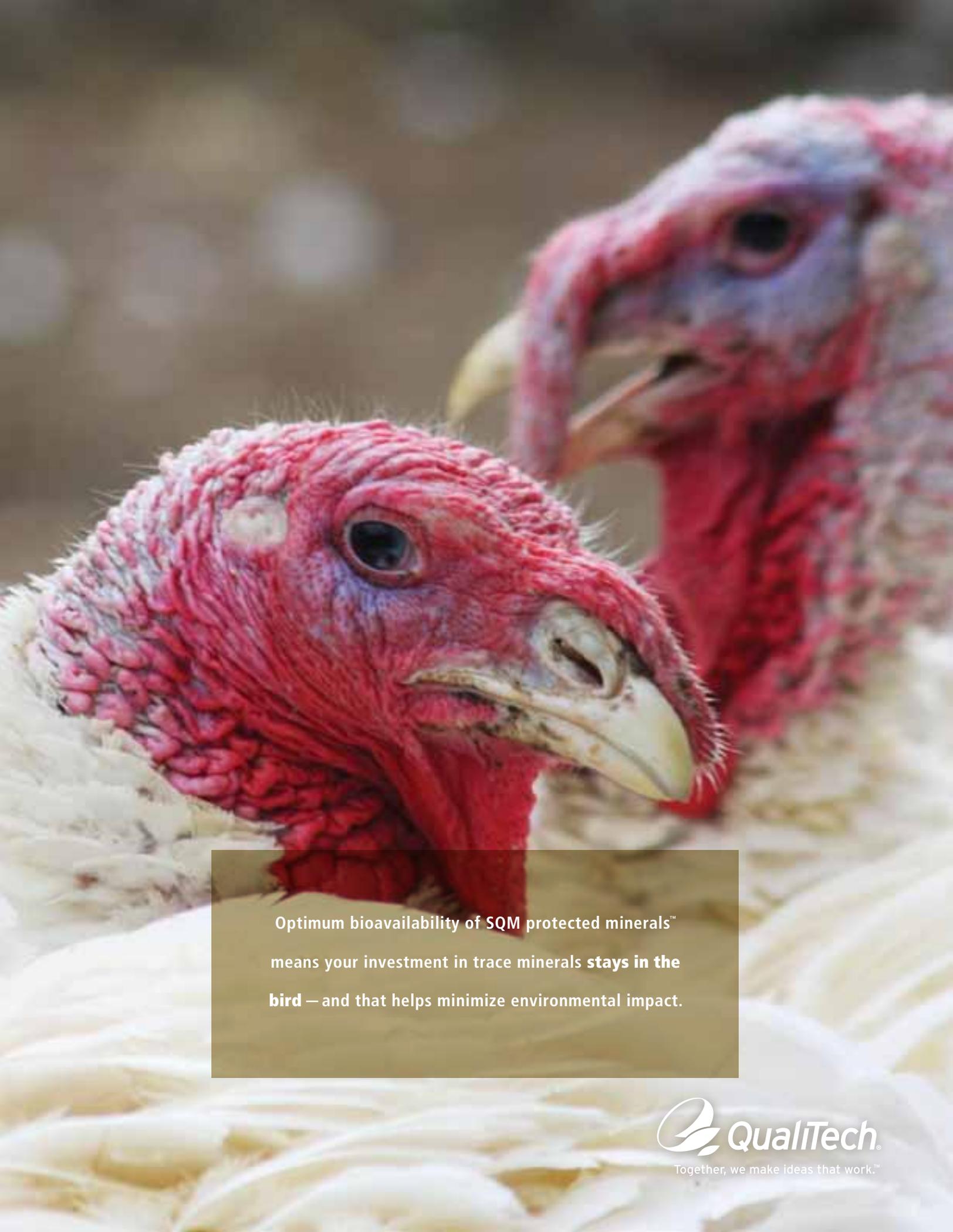
When you feed organic trace minerals, optimized bird performance is the true measure of success — and what stays on the job in the bird is what drives that success.

SQM protected minerals™ from QualiTech are designed to **maximize absorption by the bird**. We understand the importance of managing the delicate balance required to protect the trace minerals until they are delivered to precisely the right location in the digestive tract.

If the protective bond breaks down too early, trace mineral benefits are lost or diminished. If the bond is too strong, the mineral passes right through the animal and ends up in the litter.

**That's where SQM™ PolyTransport™ technology comes in.** Thanks to the optimal bioavailability of SQM protected minerals™, your investment in trace mineral nutrition stays on the job in the bird — and doesn't end up on the ground. That matters in terms of environmental impact, carbon footprint, sustainability, and consumer perception.

And it really matters in terms of bird performance and **bottom line profitability**.

A close-up photograph of two turkeys. The turkey in the foreground is in sharp focus, showing its red, wrinkled skin and yellow beak. The second turkey is in the background, slightly out of focus. They are standing on a bed of straw or hay.

Optimum bioavailability of SQM protected minerals™  
means your investment in trace minerals **stays in the  
bird** — and that helps minimize environmental impact.

# QualiTech<sup>®</sup>: nutrition innovation that drives customer success.

QualiTech has been delivering innovation in animal nutrition for nearly a half century. SQM protected minerals™ for poultry represent another significant milestone in our long history of proven performance and **positive impact for our customers.**

QualiTech provides high quality products for a wide range of applications—from poultry to swine, from cattle to equine, from aqua to pet, and even a full range of plant nutrients and human food ingredients.

**We're focused on food safety, traceability and sustainability.** SQM protected minerals™ are perfectly aligned with that mission as we work with the poultry industry to address the challenges that impact bird performance, profitability and consumer acceptance.

QualiTech is a **results-based and science-oriented company**, creating core technologies and developing solutions that make a difference for our customers.

But we're also a **people company**, dedicated to listening to our customers and working with them to help solve the problems that keep them awake at night.

It's a way of doing business that's not about us. **It's about you.**

Discover more about SQM protected minerals™ from QualiTech. We'd love the opportunity to help you succeed.





## Feed less, get more™

- Proprietary PolyTransport™ technology protects trace minerals until they are ready for absorption
- Proven bioavailability means you can feed less minerals—and waste less
- Lower inclusion rates help streamline costs while supporting optimum bird performance

Get optimal bioavailability with your trace minerals by feeding SQM protected minerals™ with PolyTransport™ technology.

Talk with your nutritionist or supplier, or call 1.800.328.5860 ext. 222 to speak with a QualiTech representative.

