

Next Generation Solutions: PhytoSquene®

The world's first plant-based squalene in GMP-quality



OUR HANDPRINT TARGET: By 2030, more than 70 percent of our total revenue will be generated with next generation solutions.



SITUATION

- Squalene is used in pharmaceutical applications in vaccine adjuvant systems, such as in influenza vaccines.
- Adjuvants stimulate the body's immune response to the active ingredient in a vaccine, making it more effective.



COMPLICATION

- Until now, pharma-grade squalene has been sourced from sharks.
- It takes up to 3,000 sharks to extract roughly a ton of squalene.



SOLUTION

- **PhytoSquene®** is Evonik's plant-based alternative to animal-derived squalene.
- It is extracted from amaranth oil, which is refined from the seeds of the amaranth plant (*Amaranthus caudatus*).
- As the world's first plant-based squalene in GMP quality, PhytoSquene® helps preserve ecosystems and marine biodiversity.
- It is non-immunogenic, has a high and consistent quality, and provides an option for patients who cannot use animal-based products for cultural or religious reasons.

LIFE AT HEART.

SYSTEM IN MINDS.

PARTNERS AT HAND.

