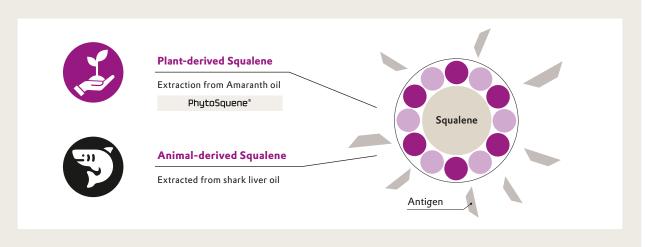
PhytoSquene®

Your plant-derived squalene for parenteral applications



PhytoSquene* is our non-animal-derived squalene that can be used in vaccines and other pharmaceutical applications.

Squalene is a natural organic molecule that is used in a range of applications including cosmetics, nutraceuticals and pharmaceuticals. In the healthcare industry, squalene is used in parenteral drug delivery as a component in adjuvant systems where it works as an additive that stimulates the body's immune response to the active ingredient in a vaccine.





Why is animal-derived squalene problematic?

Biodiversity/ ecosystems	Contamination	Quality	Supply chain
			MAND SUPPLY
Unable to meet the growing demand for biopharmaceuticals	Many fish and sharks are highly contaminated with methylmercury	Batch-to-batch variation	Pharma-grade GMP squalene is limited
Many shark populations are listed as endangered species	Bioaccumulative environmental toxicant	Variation in quality of raw materials	Traceability is limited
Sharks are essential for ecosystems	Regulatory processes can be difficult	Variation in purity of raw materials	Inconsistency in raw material supply
		Regulatory concerns over pathogens / bioburden	

PhytoSquene* is manufactured from amaranth oil using a proprietary manufacturing process carried out in Germany. Amaranth (*Amaranthus caudatus*) is an herbaceous plant cultivated in many regions of the world. Amaranth oil is extracted from the amaranth seed via supercritical CO_2 production.

Benefits of PhytoSquene®

PLANT DERIVED

CONSISTENT QUALITY

SUPPLY SECURITY

- Protects life below water
- Preserves biodiversity
- Renewable raw materials
- Consistent quality and high purity
- Compliant with Ph. Eur. specifications
- Supply chain reliability
- Large-scale manufacturing

We provide PhytoSquene® for your formulation needs.

Get in touch today for more information and to request your sample healthcare@evonik.com

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