

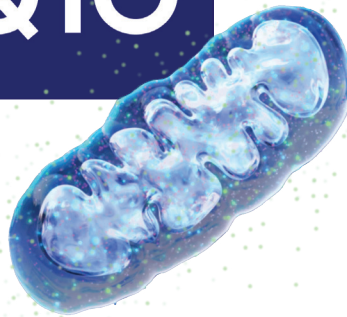


Trojan® Q10

Meet the game-changing
in skin-mitochondria therapy



with the world-first
mitochondria-targeted
delivery system



Formulation Guidelines



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Formulation Basic Data



- 0 Product code : TR0004
- 0 Product name : Trojan® Q10
- 0 Product technology : Trojan® cosmetic technology
- 0 INCI : MALTODEXTRIN, LACTIC ACID/GLYCOLIC ACID COPOLYMER, POLYVINYL ALCOHOL, UBIQUINONE, D-ARGINYL TYROSINYL ORNITHINYL PHENYLALANINE, PENTAPEPTIDE-4

- 0 Product claims (*) : Targeted antioxidant
Helps boost Q10 performance
Helps neutralise free radicals at their very production source
Helps reduce cell and skin damage from free radicals
Cell protection
Cell re-energiser
Helps stimulate collagen production
Improves skin firmness and elasticity
Helps reduce the appearance of fine lines and wrinkles

- 0 Product form / Dosage : Powder / 0.5 - 1.5 %

Formulation Guidelines

- 0 Application areas : Skin care, eye care, color cosmetics, anhydrous products for personal care.
- 0 Solubility : Insoluble in water or oil. Dispersible in water, glycerin.
- 0 Processing temperature : Does not tolerate high temperature. Required to be processed below 40°C (104°F).
- 0 Recommended pH : Trojan® Q10 is not pH sensitive. However it is optimal to formulate at neutral or slightly acidic pH. Recommended pH is 4 - 8

- 0 Mode of incorporation : Trojan® Q10 is very versatile and its incorporation is dependant on the final cosmetic formulation form. The general recommendation is to add it directly into the water phase or if needed, **a predispersion of Trojan® Q10 can be made by preparing a stock solution of one part concentration in 10 parts total water (1:10) as a solvent and incorporate the predispersion at or below 40°C into the final product.** There are no special requirements or limitations as regards for mixing equipment to be used.

- 0 Aqueous systems : Trojan® Q10 is easily incorporated into the aqueous phases of cosmetic formulations (i.e. aqueous gels, O/W, W/O or Si/W emulsions) directly as a powder or as a predispersion in water at recommended doses mentioned above. If possible, the use of 5% - 10% glycerin to pre-disperse would facilitate the incorporation of the product into the water. Trojan® Q10 is dispersible in water; therefore in transparent formulations and depending on the usage level, product may provide slight turbidity. For complete fluid systems, it is advisable to include a rheology modifier to avoid appearance of volute or sedimentation with time.

- 0 Emulsion systems : As mentioned, Trojan® Q10 is readily incorporated into the aqueous phases of the emulsion systems, or it can also be incorporated post emulsification at or below 40°C depending on the emulsion. It is advisable to use high shear mix or homogenizer when incorporating so that the powder is incorporated evenly and the end product is homogeneous. **Trojan® Q10 is sensitive to extreme heat therefore is recommended to avoid temperatures above 40°C.**

- 0 Anhydrous systems : Trojan® Q10 can also be included in powder formulations either directly or predispersed in a carrier. It should be considered that Trojan® Q10 cannot be added to any oil transparent systems due to the high content of maltodextrin.

(*) Cosmetic claims are under tension and are constantly being examined in the light of the Common Criteria with which they must comply in order to be used.
The listed claims are not subjected to legal framework nor a list of authorized claims to end cosmetic products and they are only provided as a reference.