Tagranat™ Resveratrol - Microcapsules delivery system (loading capacity 10%), enables optimal isolation of pure Resveratrol. Resveratrol, natural polyphenol derived from grapes, is a powerful anti-aging in a stable and potent form. The delivery system enables optimal isolation; ensures stabilization and protects the polyphenol from oxidation in the formulation. Therefore, enhances Resveratrol antioxidant capabilities on a cellular level. Tagranat™ Resveratrol microcapsules are based on unique Release on Demand™ (RND™) technology. When rubbed onto the skin the polymer shell collapses, releasing the active contents. The product appearance is white free flowing white powder and is part of the Tagranat™, microencapsulated natural flavonoids range.

Tagranat™ Resveratrol-microcapsules are loaded with 10% pure Resveratrol (3,5,4’-trihydroxy-trans-stilbene), a type of natural polyphenol known as a powerful antioxidant and skin brightener. Resveratrol exists as two geometric isomers: cis- (Z) and trans- (E), the trans- Resveratrol form can undergo isomerization to the cis- form when exposed to ultraviolet (oxidative stress) which known as one of the primary reasons for premature skin ageing. Resveratrol has a strong antioxidant properties attributed to structural change between isomers. Resveratrol is a potent pharmaceutical antioxidant protects against sun damage, improves collagen synthesis, and reduces cell damage, therefore, Resveratrol widely used in anti-aging skin care products e.g. facial moisturizers, eye creams and other anti-aging products.
Formulators Challenges
Resveratrol tends to hydrolyze rapidly in cosmetic formulations due to its high sensitivity to pH changes, thus, leading to a loss of activity and formulation discoloration turning to dark brown color. Resveratrol has poor solubility in water and can pose a challenge for the formulators seeking a higher more efficacious loading. Tagranat™ Resveratrol solve all this issue and delivers an active form of Resveratrol.

Tagra's Solutions & Technologies - Tagranat™ Resveratrol
The microcapsule shell is made of a single layer polymer, enabling optimal isolation of Resveratrol ensure protection from light, temperature, pH and other oxidizing agents in cosmetic formulations and therefore preserves its pharmacological activity. The pure Polyphenol is released from the capsules by applying mechanical pressure that breaks the polymeric shell while rubbing the cosmetic formulation onto skin. Until the moment of application, the active Resveratrol remains fresh and potent, thus, increase end product efficiency.

Benefits:
- Anti-aging /anti-oxidant effect
- Acne treatment
- Delivery system composed of small particles 70μm
- Delivery system which ensures that Resveratrol/ Polyphenol is released fresh and potent only upon demand by rubbing them onto the skin
- Stabilize pure Resveratrol extract.
- Prevent cosmetic formulation discoloration and decrease in activity over time.
- Homogenous dispersion in all types of formulations*
- Straightforward incorporation into the pre made bulk formulations
- Increased stability extends final product’s shelf life
Tagranat™ technology effectively shields Resveratrol from oxidative forces.
Tagranat™ technology prevents cosmetic formulation discoloration.
Non-animal derived, biotechnological ingredient

* Formulations should not contain more than 20% of alcohols and/or glycols in total.

Application:

**Function:** Skin Whitening, skin brightening, skin lightening, age spot removal, anti-aging, antioxidant, reduce excessive pigmentation for an even skin tone

**Type:** Hydrous and anhydrous whitening and anti-ageing formulations, anti-acne, lotion, serum, cream.

**Product Specification:**

**Appearance:** Free fluid powder

**Color:** White

**Odor:** Characteristic

**Average Particle size:** Less 70 microns.

**Active concentration:** 10%

**Recommended concentration use:** Up to 5%

**Origin / Nature:** Natural botanical extract, natural Polyphenols/ Flavonoids

**INCI Name:** Resveratrol (and) Polymethyl Methacrylate (and) Tricaprylin

For samples and further information, please contact info@tagra.com