



Ashland Inc.

www.ashland.com/raspberry

Empirical Analysis Revealing Privileged Chemical Space of Cosmetic Preservatives

PRODUCT/SERVICE BACKGROUND INFORMATION

Phyteq™ raspberry multifunctional preservative booster is a globally approved, biodegradable multifunctional additive, based on raspberry ketone, a compound occurring in different plants which has been used for centuries in traditional Chinese medicine and Ayurveda rituals.

It acts as preservative potentiator that protects the cosmetic against spoilage. Additional skin benefits make it an excellent choice for skin care products, as it acts as a strong antioxidant and free radical scavenger that helps to protect the elasticity of the skin.

Phyteq™ raspberry multifunctional, the perfect fit for global formulations and markets, it gives formulators a choice to reduce or avoid usual preservatives or antimicrobials. Combining antimicrobial boosting with skin benefits while having a favorable biodegradability profile.

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

Molecular descriptors of existing preservatives were empirically analyzed and used as a training model in identification of privileged chemical space. The molecular properties defining the privileged chemical space were found to be easy to calculate and able to provide guidance for the development of novel preservatives.

HOW WILL THIS NEW PRODUCT/SERVICE IMPACT THE INDUSTRY (BENEFITS)?

Due to regulatory restrictions and negative consumer opinions, preservative options have become limited, and the development of novel solutions is needed. The identification of privileged chemical space specific to preservative actives provides a smart, novel approach in the pursuit of new preservative technologies.