

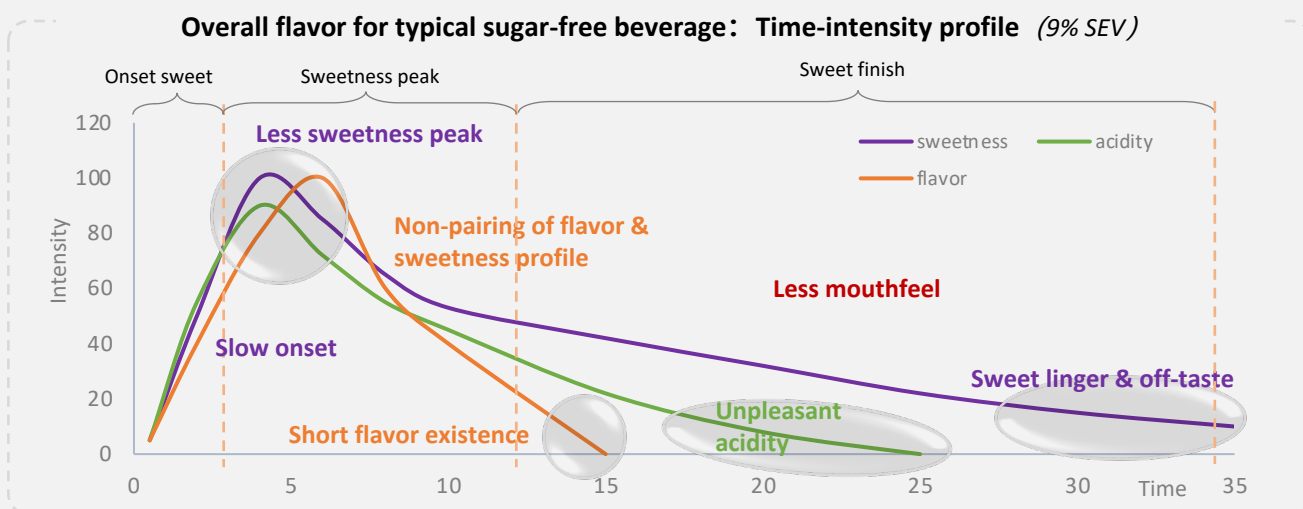
Synthetic sweetener Toolbox of modulating sweetness profile

Good helper to create great sweetness profile – DIY toolbox of taste modulation for sugar-free beverages






Perfect synergy with high-intensity sweeteners to modify the overall flavor for $\geq 4\%$ SEV sucrose substitution

Triple challenge of HIS: sweet-sour profile, flavor, mouthfeel

The popular HIS, for e.g. sucralose, AC-K, has typical unsatisfied overall sweetness profile: **when using for more than 4 SEV, it easily causes slow onset sweetness, bitterness, astringency, metallic taste, sweet lingering and results in negative effects to the overall flavor.** In addition, HIS also has formulation challenges like imbalanced sweet/sour profile, less flavor intensity, less mouthfeel etc.



Characteristics of Toolbox of Modulating Sweetness Profile of Synthetic Sweeteners

-  **Quicken onset sweetness of HIS**
-  **Cut sweet linger, metallic taste, bitterness, etc.**
-  **Boost fruity flavor and freshness**
-  **Balance sweet/sour profile**
-  **More mouth coating, real sugar-like taste**



Product portfolio

Target	Scenario	Recommend product	Value proposition	Dosage
Mouth coating enhancing	General	Savarin™ 100 CLC 02	<ul style="list-style-type: none"> Improve overall flavor, modifies sweetness; Enhance mouth coating, quicken onset sweetness; Improve sweetness by 1.5SEV, lower dosages of sugar, polyol, or other sweeteners. 	100-150ppm
Sweet linger, bitter, off-taste cutting	General Ripe flavored is better	TasteAroma™ 307STO	Strong performance on erasing or blocking aftertaste of HIS such as the sweet linger of stevia or the metallic aftertaste of sucralose.	20-50ppm
	General Fresh flavored is better	TasteAroma™ 100ASTO	Block sweet linger and aftertaste of HIS, without effecting the original flavor.	20-50ppm
	General Fresh flavored is better	TasteAroma™ 100ATO	Block sweet linger and aftertaste of HIS, without effecting the original flavor.	20-50ppm

Application—0 sugar, 0 calories, 0 fat, white peach flavored sparkling water

EPC toolbox performance: Time-intensity profile (9% SEV)

