

Amarillo alternative - late kettle addition

Comparison of Amarillo	Difference detected	No difference detected	Significant difference
80% Cascade 20% Lemondrop	—	—	No

Method: Panel Tetrad Test (Sensory Analysis, 2016)

Results: Recommended alternative to Amarillo = **80% Cascade + 20% Lemondrop**

Citra alternative - dry hopped

Comparison of Citra with (10 panelists)	Difference detected	No difference detected	Significant difference (at 0.01 level)
40% Eureka 35% Calypso 25% Apollo	9 panelists	1 panelist	Yes
70% Calypso 30% Bravo	7 panelists	3 panelists	No

Method: Triangle Test (MEBAK – Sensory Analysis, 2014, Method 3.1.3)

Results: Recommended alternative to Citra = **70% Calypso + 30% Bravo**

Simcoe alternative - dry hopped

Comparison of Simcoe with (9 panelists)	Difference detected	No difference detected	Significant difference (at 0.01 level)
60% Eureka 40% Calypso	8 panelists	1 panelist	Yes
50% Eureka 40% Apollo 10% Cascade	4 panelists	5 panelists	No

Method: Triangle Test (MEBAK – Sensory Analysis, 2014, Method 3.1.3)

Results: Recommended alternative to Simcoe = **50% Eureka + 40% Apollo + 10% Cascade**