

Style:

TRIPLE IPA (19L/5GAL)

Biotransformation Series

Fermented with: LalBrew Pomona™ WE BREW WITH YOU."

Beer name and/or description: Peaches & Cream TIPA

This excessive recipe shows how LalBrew Pomona™ thrives in high-ABV brews. Mosaic and Chinook hops rich in free geraniol are biotransformed into citrussy citronellol. A heavy dry hop with Citra and Sabro hops provide tropical and coconut aromas that complement the fruity esters from the yeast. Read more

			Water		
Mash	Temp.	70.5	°C	159	°F
Water		30	L	7.9	gal
Sparge	Temp.	76	°C	169	°F
Water		5	L	1.3	gal

Malt

Malk /adiomaka	Weight %			
Malt/adjuncts	Kg	Lbs	70	
Pale Ale Malt	7.3	16.1	80	
Flaked Oats	1.0	2.2	10	
Carapils (Dextrine Malt)	0.45	1.0	5	
Dextrose	0.45	0.45 1.0		
Total	9.2	20.3	100	
	Mash & Sp	arge		
	T	Time (min		
	°C	°F	Time (iiiii)	
Mash Step 1	65	149	60	
Mash Step 2				
Mash Step 3				
Mash Step 4				

NOTES

Other ingredients	Quantity	Units (L, g, etc)	Addition Point
Servomyces	1	capsule	10 min boil

% ABV: 10.5 IBU: 30 Color (SRM): 3.0

п			п	
u	n	п		
n	ш	1	п	
ш	ш			

ווטע						
Wort	SG	L	gal	рН		
Pre-boil	1.089	27.7				
Post-boil	1.104	23.6				
Total Boil Time	75		minutes			

		Hops	S		
	0/88	Weight		Kettle addition	Dry hopping
Hop Variety	%AA	g	0Z	Boil Time (min)	Fermentation day
CTZ	15.5	56	2	60	
Chinook	13	88	3.1	WP	
Mosaic	12.5	88	3.1	WP	
Sabro	14	152	5.4		4
Citra	11	152	5.4		4
Total	66	536	19		

Fermentation

_	Yeast Strain	LalBrew Pomona™					
	Pitch Rate	1.16	g/L 2x11g sachets		ets		
	Temperature	20	°C	68	°F		
		SG		Plato			
	OG	1.104		24.6			
	FG	1.024		6.1			
	Attenuation	75	%				

Long boil of 75 minutes for DMS reduction. Cool the wort to 80'C for whirlpool additions (20 min)













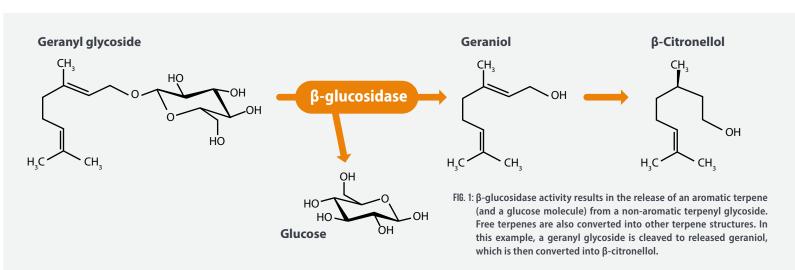
LalBrew Pomona™ Biotransformation Recipe Series

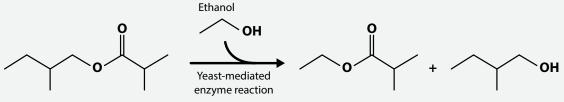
Lallemand/Escarpments Labs Collab 6: Peaches & Cream Triple IPA

This admittedly excessive recipe shows off how LalBrew Pomona™ performs in high-ABV brewing as well as its compatibility with modern aroma hops such as Sabro. The fruity hop biotransformation capability of LalBrew Pomona™ perfectly complements the coconut-like note that modern hops (such as Sabro) with Humulus Neomexicanus genetics contribute to beer.

Here, we start with a complex fruity hop foundation rich in compounds that can be biotransformed by Pomona, combining Mosaic and Chinook which are both rich in terpenes such as geraniol that Pomona will transform into citronellol (citrus). Then, we layer the aroma with a big dry hop of Sabro and Citra, adding tropical fruit and coconut top notes, creating a big, juicy, tropical triple IPA without any lactose required. We will achieve this by a combination of methods:

- > Lower-temperature (80°C) whirlpool addition of Chinook and Mosaic hops to maximize the extraction of terpene precursors such as free geraniol.
- > Conversion of geraniol to beta-citronellol (citrus) by fermentation with LalBrew Pomona™
- > Fermentation with LalBrew Pomona™ for strong performance in high ABV conditions and higher attenuation than other hazy IPA strains.
- > Late dry hop addition of Citra and Sabro provide a boost of free terpenes, thiols, and lactones that contribute to tropical character.





2-Methylbutyl isobutyrate (2-MIB)

(green apple, apricot)

Ethyl isobutyrate (grape, melon)

2-Methylbutanol (green apple, apricot) FIG. 2: Transesterification of hop-derived esters such as 2-MIB through yeast-mediated enzyme reactions can increase concentrations of ethyl esters such as ethyl isobutyrate.

