MORILLO

- Gravity 12.9 BLG
- ABV **5.2** %
- IBU **28**
- SRM **5.1**
- Style American IPA

Batch size

- Expected quantity of finished beer 14 liter(s)
- Trub loss 10 %
- Size with trub loss 16.1 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 19.5 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 14.7 liter(s)
- Total mash volume 18.9 liter(s)

Steps

- Temp 66 C, Time 60 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 14.7 liter(s) of strike water to 72.6C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 10 min at 78C
- Sparge using 9 liter(s) of 76C water or to achieve 19.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Castle Pale Ale	2.5 kg <i>(59.5%)</i>	80 %	8
Grain	BESTMALZ - Best Pilsen	1.5 kg <i>(35.7%)</i>	80.5 %	4
Grain	Cara Body Viking Malt	0.1 kg <i>(2.4%)</i>	%	8
Grain	Pszeniczny Jasny Bestmalz	0.1 kg (2.4%)	%	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	60 min	10 %
Aroma (end of boil)	Amarillo	10 g	15 min	9.5 %
Aroma (end of boil)	Mosaic	10 g	15 min	10 %
Whirlpool	Amarillo	10 g	0 min	9.5 %
Dry Hop	Amarillo	35 g	2 day(s)	9.5 %
Whirlpool	Mosaic	10 g	0 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
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Mangrove Jack's M44 US West Coast	Ale	Slant	100 ml	Mangrove
M44 03 West Coast				