Tropical FES

- Gravity **17.3 BLG**
- ABV ----
- IBU **63**
- SRM **60.5**
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 16 liter(s)
- Trub loss 0 %
- Size with trub loss 16 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 19.4 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.4 liter(s)
- Total mash volume 17.8 liter(s)

Steps

• Temp 65 C, Time 60 min

Mash step by step

- Heat up 13.4 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Sparge using 10.5 liter(s) of 76C water or to achieve 19.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilsner	3.62 kg <i>(75.9%)</i>	82.61 %	3
Adjunct	Flaked Barley	0.32 kg <i>(6.7%)</i>	69.57 %	4
Grain	CaraAroma	0.38 kg <i>(8%)</i>	73.91 %	345
Grain	Roasted Barley	0.26 kg <i>(5.5%)</i>	63.04 %	1466
Grain	De-Husked Caraf I	0.19 kg <i>(4%)</i>	69.57 %	906

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale - English Ale Yeast S-04	Ale	Dry	11.5 g	Fermentis / Safale