

Raging Bitch

- Gravity **17.3 BLG**
- ABV **7.4 %**
- IBU **104**
- SRM **9.5**
- Style **Belgian Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **26.3 liter(s)**
- Total mash volume **33.8 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - 2 Row Carapils Malt	6.5 kg (86.7%)	75 %	3
Grain	Caramel/Crystal Malt - 40L	1 kg (13.3%)	74 %	79

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	10 g	60 min	15.5 %
Boil	Columbus/Tomahawk/Zeus	30 g	45 min	15.5 %
Boil	Amarillo	30 g	30 min	9.5 %
Boil	Amarillo	30 g	20 min	9.5 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	30 g	10 min	15.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	6 g	Fermentis
Safbrew S-33	Ale	Dry	6 g	Safbrew