

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 |