KANGAROO PALE ALE

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU 48
- SRM **5.5**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.3 liter(s) / kg
- Mash size 18.1 liter(s)
- Total mash volume 23.6 liter(s)

Steps

- Temp 64 C, Time 50 min
 Temp 72 C, Time 15 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 18.1 liter(s) of strike water to 70.7C
- Add grains
- Keep mash 50 min at 64C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 14.8 liter(s) of 76C water or to achieve 27.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	5 kg <i>(90.9%)</i>	80 %	5
Grain	Carared	0.5 kg <i>(9.1%)</i>	75 %	39

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Vic secret	10 g	60 min	19.9 %
Boil	Vic secret	20 g	15 min	19.9 %
Boil	Vic secret	20 g	5 min	19.9 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M66 Hophead Ale	Ale	Dry	10.5 g	Mangrove Jack's