

APA_Lotus

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **43**
- SRM **4.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **23.2 liter(s)**

Mash information

- Mash efficiency **96 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

Steps

- Temp **51 C**, Time **15 min**
- Temp **67 C**, Time **60 min**

Mash step by step

- Heat up **14 liter(s)** of strike water to **55.4C**
- Add grains
- Keep mash **15 min** at **51C**
- Keep mash **60 min** at **67C**
- Sparge using **13.2 liter(s)** of **76C** water or to achieve **23.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Biess - Pale Ale Malt	4 kg (100%)	80 %	7

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Agnus	10 g	60 min	13.87 %
Boil	lotus	10 g	15 min	15.1 %
Boil	lotus	20 g	10 min	15.1 %
Boil	lotus	20 g	5 min	15.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Slant	500 ml	Fermentum Mobile