

ULTRA SESSION APA

- Gravity **8 BLG**
- ABV **3.1 %**
- IBU **31**
- SRM **3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **13.5 liter(s)**

Steps

- Temp **70 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **10.5 liter(s)** of strike water to **77.1C**
- Add grains
- Keep mash **60 min** at **70C**
- Keep mash **5 min** at **78C**
- Sparge using **17.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilznieński	1 kg (33.3%)	81 %	4
Grain	Żytni	1 kg (33.3%)	85 %	8
Grain	Pszeniczny	0.5 kg (16.7%)	85 %	4
Grain	Płatki owsiane	0.5 kg (16.7%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	10 g	60 min	12 %
Boil	Mosaic	20 g	20 min	10 %
Aroma (end of boil)	Mosaic	15 g	0 min	10 %
Aroma (end of boil)	Citra	15 g	0 min	12 %
Dry Hop	Citra	30 g	3 day(s)	12 %
Dry Hop	Mosaic	10 g	3 day(s)	10 %