

American India Pale Ale

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **83**
- SRM **9.7**
- 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 liter(s) / kg**
- Mash size **16.2 liter(s)**
- Total mash volume **21.6 liter(s)**

Steps

- Temp **67 C**, Time **90 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **16.2 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **14.5 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.8 kg (88.9%)	80 %	5
Grain	Strzegom Karmel 150	0.4 kg (7.4%)	75 %	150
Grain	Aroma CastleMalting	0.2 kg (3.7%)	78 %	100

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Bravo	35 g	60 min	15.5 %
Boil	Cascade	20 g	15 min	6 %
Boil	Citra	25 g	10 min	12 %
Boil	Cascade	25 g	5 min	6 %
Boil	Citra	25 g	3 min	12 %
Dry Hop	Cascade	15 g	7 day(s)	6 %
Dry Hop	Citra	15 g	7 day(s)	12 %