

American Wheat z trawą cytrynową

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **24**
- SRM **3.8**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **1100 liter(s)**
- Trub loss **5 %**
- Size with trub loss **1155 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **1328.3 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **705 liter(s)**
- Total mash volume **940 liter(s)**

Steps

- Temp **55 C**, Time **5 min**
- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **705 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **5 min** at **55C**
- Keep mash **40 min** at **63C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **858.3 liter(s)** of **76C** water or to achieve **1328.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	100 kg (42.6%)	81 %	4
Grain	Pszeniczny	100 kg (42.6%)	85 %	4
Grain	Monachijski	25 kg (10.6%)	80 %	16
Grain	Płatki ryżowe	10 kg (4.3%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	500 g	60 min	13 %
Boil	Columbus/Tomahawk/Zeus	1000 g	10 min	15.5 %
Whirlpool	Simcoe	2000 g	0 min	12 %
Dry Hop	Simcoe	5000 g	7 day(s)	13.2 %
Dry Hop	Centennial	2000 g	7 day(s)	10.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	500 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Spice	Trawa cytrynowa	1000 g	Boil	10 min