

# BETKOWE urodzinowe

- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **53**
- SRM **5.7**
- 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 **5 %/h**
- Boil size **23.1 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.2 liter(s)**
- Total mash volume **25.6 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (46.9%)	50 %	5
Grain	Strzegom Pilzneński	2 kg (31.3%)	50 %	4
Grain	Strzegom Monachijski typ I	1 kg (15.6%)	55 %	16
Grain	Płatki owsiane	0.4 kg (6.3%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	60 min	12 %
Boil	Cascade	10 g	30 min	7.3 %
Boil	Galaxy	10 g	30 min	18.6 %
Boil	Cascade	10 g	10 min	7.3 %
Boil	Galaxy	10 g	10 min	18.6 %
Boil	Galaxy	15 g	1 min	18.6 %
Dry Hop	Cascade	30 g	7 day(s)	7.3 %
Dry Hop	Galaxy	10 g	7 day(s)	18.6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

## Notes

- Odfermentowało do 2,5 Blg, nagazowanie 2,2, moc 5,9 %  
*Mar 3, 2019, 12:39 PM*