

INTERNATIONAL PALE LAGER

STYLE: INTERNATIONAL PALE LAGER

TASTING NOTES:

Introducing a highly-attenuated pale lager, meticulously crafted for a well-balanced and refreshing experience. This brew boasts a clean fermentation profile and a subtle aroma of grainy-malty notes with hints of sweetness. When served cold, its pale straw-to-gold colour and white frothy head make for a visually appealing and thirst-quenching drink. Perfect for those who appreciate a light and crisp beer with a touch of subtle flavours. Cheers to a classic choice for a laid-back evening or social gathering!

SPECIFICATIONS:

OG	1.047	Boil Time	90 Mins
FG	1.012	Batch Size	23L
IBU	20.7	Brew Day Duration	4-6 Hours
Colour	5.8 EBC – Pale Straw	ABV	4.6%
Mash Efficiency	80%	Fermentation time	26 Days
Mash Time	60 Mins + 10 Min. Mash out	Fermentation Temp	18-20°C
Mash Temp	68°C	Bottling/Kegging Volume	22L

CHECKLIST BEFORE YOU START:

INGREDIENTS:

☐ 5kg Grains 2 bags
☐ Yeast 2x 10g packs
☐ Hops 1x 50g bags
☐ Liquid finings 1x sachet
$\hfill\Box$ Carbonation drops or bottling sugar if bottling (not included)
☐ Calculate water volumes below if not using an app.



Free Grainfather App



1. Pre-Boil Volume	2. Mash Volume:	3. Sparge Volume
Batch Volume(23L) + Boil	Grain weight * Mash thickness	Pre-boil volume – Mash water
Losses + (Boil Length * Boil off	+ Mash tun dead space =	+ (grain weight * grain
rate) = Preboil Volume	Mash Volume	absorption) = Sparge Volume

 Your Brew system manufacturer should have specifications for boiler loss, boil-off rate, mash tun dead space and recommended mash thickness. We recommend using a grain absorption rate of 0.8L/kg

EQUIPMENT:	
□ All Grain brewing system, e.g. Grainfather G30	☐ Counterflow/ Immersion Chiller
☐ Sparge Water Heater	□ Mash Paddle
☐ Hydrometer/ Refractometer	☐ Hot water safe jug >1L
\square 30L Sanitised Fermenter & Airlock with Temp control	☐ Kegging/ Botting Equipment
BREW AREA:	
□ Access to water	☐ Access to drainage
☐ Access to Power	
FERMENTATION AREA:	
☐ Stable day-night temperatures	☐ Stationary for Fermentation
BREW DAY:	
SET UP & MASH:	
\square Set up the Brew System and ensure they are clean.	
\square Make sure valves are closed on Brew System.	
\Box If using a single Vessel brew system like Grainfather G3 and heat to 68°C. Or fill your Hot Liquor Tank (HLT) with the	-
$\hfill\square$ When the Mash water is at temperature. Add the grains mash paddle until the consistency resembles that of port	
☐ If your Brew system has a pump, set up recirculation ar the mash temperature while recirculating for 60 Mins .	nd allow the brew system to maintain



□ Set up the Sparge water heater, fill it with the Sparge water volume, and heat it to 75°C. Or raise the temperature of your HLT to 75°C.
\Box At the end of the 60 min mash, Raise the temperature of the mash to 75°C and let it rest for 10 Mins.
SPARGE & BOIL:
□ If using a single Vessel brew system like Grainfather G30 raise the mash basket. Otherwise, Vorlauf (drain mash tun until runnings are clear and pour back into mash tun), then drain first runnings to the kettle.
\square Slowly add sparge water to the grains and allow to drain into the boiler.
□ Start heating to near boil (98°C)
□ Remove grain basket
□ Record Pre-Boil Gravity & Preboil Volume
\square Bring the kettle to a boil, stirring the surface gently to avoid a boil over.
☐ Start timer when boil starts.
□ Clean mash basket/ Mash tun
\square With 10 minutes left, set up and submerge your immersion chiller in the boiler. Or set up your counter-flow chiller.
\square Add 5 min Hop Addition (55 mins into the boil) 50g (1 Bag) of Mandarina Bravaria Hops
□ Ensure your fermenter is cleaned and sanitised.
COOLING & TRANSFERRING:
\Box Cool to pitching temperature with the immersion temperature with the immersion chiller. Or cool and transfer to your clean and sanitised fermenter using a counterflow chiller.
Record Original Gravity (OG) & Amount in the fermenter
FERMENTATION:
☐ Ensure the wort is at the pitching temperature, then add the yeast
☐ Fit fermenter lid and Bung & Airlock/ Blow off tube
☐ Move the Fermenter to a place that has a stable 8-15°C area. Or where you have fermentation temperature control where the fermenter won't be moved for 26 Days
□ Clean Brewing system
\Box Ferment at between 18-20 $^{\circ}$ C for 8 days. If possible, raise the temperature to 22 $^{\circ}$ C at the end of the 8 days, for 2 days.



 \Box If possible, drop the temperature on the fermenter down to 3-6°C rest for 14 days. If not, allow the fermenter to return to about 8-15°C rest for 3 days. Add the liquid finings **KEGGING:** \square Move the fermenter up to a table, and let the sediment settle. ☐ Sanitise the keg & Transfer Hoses/ fittings. \square Rack/Transfer beer straight into the keg, save a sample for tasting and a hydrometer sample. \square add priming sugar or force carbonate. ☐ Record Final Gravity: & Keg Volume ☐ Clean Fermenter and kegging equipment **BOTTLING:** \square Determine how many and what type of bottles to use. ☐ Make sure you have enough caps on hand. \square Move the fermenter up to a table and let the sediment settle. \square Begin sanitising bottles and caps. ☐ Sanitize your filling equipment, e.g. racking cane, transfer hoses, battling wand, bottling bucket and spoon. ☐ If using priming sugar dissolve in warm / boiled water and let it cool. ☐ Carefully rack beer into the bottling bucket; save a sample for tasting and a hydrometer sample. \square Add priming sugar solution and mix without splashing. \square Siphon/Transfer beer into bottles. \square Cap and mark bottles. \square If using carbonation drops, add the appropriate number of drops per bottle. ☐ Siphon/Transfer beer into bottles. Save a sample for tasting and a hydrometer sample. \square Cap and mark bottles. ☐ Record Final Gravity: ______ & Number of Bottles_____

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☐ Clean bottling equipment



DRINK THE BEER:

\square Wait about 2 weeks and try some; note carbonation levels and flavour profile. If no 3-6 $^{\circ}$ C
fermentation step was done, try to store these bottles in a place where the temperature is less
than 10°C for a further 2-3 weeks before consuming.
□ Plan your next brew.