

2019 HACCP Report

1st July 2019

Agrichemical Residue Analyses

- Our agrichemical residue analyses are performed by Agrifood Technology Pty Ltd, Werribee, Victoria, Australia
- Agrifood Technology is accredited by the National Association of Testing Authorities (NATA) and is ISO:9001 certified.
- Agrifood Technology test for 265 Agrichemicals. The complete list of results is available upon request.
- As per the Barth-Haas Quality Control Guarantee for crop 2019 HPA analysed at least 1 sample for every 40 tonnes of hops harvested. All varieties and growing regions were represented in the samples tested.
- For crop 2019 we tested 50 samples.
- For more Information about the Barth–Haas Quality Control Guarantee go to: <http://www.barthhaas.com/en/quality-management/quality-control-guarantee>

No agrichemical residues were detected above the “global best practice” MRL’s, established by Barth-Haas in the crop 2019 hop pellet samples.

Heavy metal analyses

- Our heavy metal analyses are performed by the “Nata” (National Association of Testing Authorities) accredited laboratory, Analytical Services Tasmania at the University of Tasmania.
- We analyse for Arsenic, Lead, Cadmium, Mercury, Nickel, Copper, Iron, Selenium, Chromium, and Cobalt.
- Five random samples are tested representing each growing region.

2019 Crop Heavy Metal Analysis Results

Variety	Region	As mg/kg	Cd mg/kg	Co mg/kg	Cr mg/kg	Cu mg/kg	Fe mg/kg	Ni mg/kg	Pb mg/kg	Se mg/kg	Hg mg/kg
Vic Secret	VIC	<0.9	<0.9	<0.9	<0.9	4.1	96.7	2.5	<0.9	<4.5	<0.02
Galaxy	VIC	<0.9	<0.9	<0.9	<0.9	5.0	81	2.2	<0.9	<4.5	<0.02
Topaz	VIC	<0.9	<0.9	<0.9	<0.9	4.4	103	1.1	<0.9	<4.5	<0.02
Enigma	TAS	<0.9	<0.9	<0.9	<0.9	5.1	273	1.4	<0.9	<4.5	<0.02
Ella	TAS	<0.9	<0.9	<0.9	<0.9	4.8	216	1.2	<0.9	<4.5	<0.02

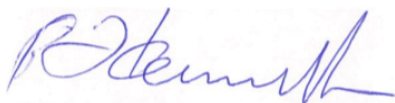
GMO and Allergenic Substances Declaration

We hereby confirm that all hops supplied by Hop Products Australia are neither genetically modified nor are the resulting hop products processed by using technology for genetically modified organisms (GMO's).

Therefore all hops and hop products do not have to be marked as GMO-products according to existing regulations of Australia, (Australia and New Zealand food standards code, standard 1.5.2), European Union and other countries concerning food safety.

We also confirm that our hops and hop products are free from any of the allergens listed in the table below, nor do they contain any allergenic potential.

Type of Allergen	Contains
Cereals containing gluten and their products, namely, wheat, rye, barley, and spelt and their hybridised strains other than where these substances are present in beer and spirits standardised in Australian food standards 2.7.2 and 2.7.5 respectively	No
Crustacea and their products	No
Egg and egg products	No
Fish and fish products	No
Milk and milk products	No
Tree nuts and sesame seeds and their products	No
Peanuts, lupins, soybeans, and their products	No
Added sulphites	No



Peter Hamilton

Inventory & Quality Manager