



Certificate of analysis

John I Haas, Inc.
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Certificate of analysis	ICA005696		
Product name	MOSAIC® HBC 369 C.V. TYPE 90 BULK-INT PELLETS	Crop year	2025
	US		
Raw hop batches	25-ID123-011	Production date	22-Jan 2026
Finished good batch	PE05208	Best before date	22-Jan 2031

Notes

Type	Description	Note
CoA Note	Description	Type 90 Pellets are produced from raw hops and can be added to the kettle to provide bitterness and a hop character that is indistinguishable from that achieved using raw hops. Hop Pellets provide improved homogeneity, better storage stability and reduced storage/transport costs compared to raw hops.
CoA Note	Storage	Type 90 Pellets should be stored cool at 0 – 5 °C (32 - 41 °F). Pellets are best used within 5 years after processing. Foils, once opened, should be used within a few days to avoid deterioration of bitter acids and essential oils.
CoA Note	Pesticide Statement	Pesticide residues are monitored in hop products under our BarthHaas Quality Guarantee.

Test	Unit	Test value	Reference method
HSI	--	0.317	ASBC Hops-12
Total Oil	mL/100g	1.5	ASBC Hops-13
Beta-pinene	%	0.7	ASBC Hops-17
Caryophyllene	%	4.0	ASBC Hops-17
Citronellol	%	0.3	ASBC Hops-17
Farnesene	%	0.5	ASBC Hops-17
Geraniol	%	0.6	ASBC Hops-17
Humulene	%	8.0	ASBC Hops-17
Limonene	%	0.4	ASBC Hops-17
Linalool	%	0.6	ASBC Hops-17
Myrcene	%	19.3	ASBC Hops-17
Nerol	%	0.2	ASBC Hops-17
Moisture Oven	%	6.9	ASBC Hops-4C
Alpha, Spectro	%	11.9	ASBC Hops-6A
Beta, Spectro	%	3.5	ASBC Hops-6A
Manufacturing Target	%	12.0	Calculated

Release by	Date
Andrea de la Garza, QC Manager	January 30, 2026 2:00:43 PM