KAR *Laboratories, Inc.*

4425 Manchester Rd
Kalamazoo, MI 49001
Phone 269 381-9666
Fax 269 381-9698
www.karlabs.com

John Q. Customer
123 Main Street
Anywhere, USA 12345

Attn : ***John Customer***

KAR Project No. :	***610663***
Date Reported :	***08/16/16***
Date Activated :	***08/15/16***
Date Due :	***08/16/16***
Date Validated :	***08/16/16***

Project Description : ***Analysis of four samples of hops - example report.***

Dear Client,

Your laboratory data is presented to you in this report. Unless stated otherwise, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received.

If you wish to contact us about this work please mention KAR Project No. 610663. To arrange additional sampling or testing please contact our Client Services Department. If you find any errors please contact us immediately.

John Q. Customer is the owner of this data and the laboratory cannot release the results to other parties. If a third party needs a copy of the laboratory report, it should come from the owner, not the laboratory.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

David R. Alkema
Laboratory Manager

Results are invalid if report is not presented in its entirety. The laboratory does not own the data and cannot provide copies. The owner of this data is **John Q. Customer**.

HOP TESTING LABORATORY REPORT

Client: ***John Q. Customer***

KAR Project No. : ***610663***

Date Reported: ***08/16/16***

Analysis of four samples of hops - example report.

Sample ID : ***"Chinook 2016"***

Sampled By : ***WGR***
Sample Date : ***08/15/16***
Sample Time : ***1430***

Date Received: ***08/15/16***
Sample Type : ***Hops***
KAR Sample No. : ***610663-01H***

Test	Result as received ("wet")	Units	Method used	Analyzed Date	By	Result expressed as 10% moisture ("dried")
Moisture	*77.72*	*% by weight*	*Dried 145 deg. F*	*08/16/16*	*EIF*	
Hops-14	*See below*			*08/16/16*	*MHK*	
Prep, hops (HPLC)	*Completed*		*ASBC Hops-14*	*08/16/16*	*MHK*	
Alpha acids	*2.78*	*% by weight*	*ASBC Hops-14*	*08/16/16*	*MHK*	*11.2*
Beta acids	*0.78*	*% by weight*	*ASBC Hops-14*	*08/16/16*	*MHK*	*3.2*
Cohumulone	*31.5*	*% of Alpha acids*	*ASBC Hops-14*	*08/16/16*	*MHK*	
Colupulone	*56.8*	*% of Beta acids*	*ASBC Hops-14*	*08/16/16*	*MHK*	

HOP TESTING LABORATORY REPORT

Client: ***John Q. Customer***

KAR Project No. : ***610663***

Date Reported: ***08/16/16***

Analysis of four samples of hops - example report.

Sample ID : ***"Willamette 2016"***

Sampled By : ***WGR***
Sample Date : ***08/15/16***
Sample Time : ***1430***

Date Received: ***08/15/16***
Sample Type : ***Hops***
KAR Sample No. : ***610663-02H***

Test	Result as received ("wet")	Units	Method used	Analyzed Date	By	Result expressed as 10% moisture ("dried")
Moisture	*79.54*	*% by weight*	*Dried 145 deg. F*	*08/16/16*	*EIF*	
Hops-14	*See below*			*08/16/16*	*MHK*	
Prep, hops (HPLC)	*Completed*		*ASBC Hops-14*	*08/16/16*	*MHK*	
Alpha acids	*1.02*	*% by weight*	*ASBC Hops-14*	*08/16/16*	*MHK*	*4.5*
Beta acids	*0.83*	*% by weight*	*ASBC Hops-14*	*08/16/16*	*MHK*	*3.7*
Cohumulone	*32.7*	*% of Alpha acids*	*ASBC Hops-14*	*08/16/16*	*MHK*	
Colupulone	*53.0*	*% of Beta acids*	*ASBC Hops-14*	*08/16/16*	*MHK*	

HOP TESTING LABORATORY REPORT

Client: ***John Q. Customer***

KAR Project No. : ***610663***

Date Reported: ***08/16/16***

Analysis of four samples of hops - example report.

Sample ID : ***"Nugget 2016"***

Sampled By : ***WGR***
Sample Date : ***08/15/16***
Sample Time : ***1430***

Date Received: ***08/15/16***
Sample Type : ***Hops***
KAR Sample No. : ***610663-03H***

Test	Result as received ("wet")	Units	Method used	Analyzed Date	By	Result expressed as 10% moisture ("dried")
Moisture	*79.72*	*% by weight*	*Dried 145 deg. F*	*08/16/16*	*EIF*	
Hops-14	*See below*			*08/16/16*	*MHK*	
Prep, hops (HPLC)	*Completed*		*ASBC Hops-14*	*08/16/16*	*MHK*	
Alpha acids	*1.48*	*% by weight*	*ASBC Hops-14*	*08/16/16*	*MHK*	*6.6*
Beta acids	*1.08*	*% by weight*	*ASBC Hops-14*	*08/16/16*	*MHK*	*4.8*
Cohumulone	*42.6*	*% of Alpha acids*	*ASBC Hops-14*	*08/16/16*	*MHK*	
Colupulone	*68.3*	*% of Beta acids*	*ASBC Hops-14*	*08/16/16*	*MHK*	

HOP TESTING LABORATORY REPORT

Client: ***John Q. Customer***

KAR Project No. : ***610663***

Date Reported: ***08/16/16***

Analysis of four samples of hops - example report.

Sample ID : ***"Cascade 2016"***

Sampled By : ***WGR***
Sample Date : ***08/15/16***
Sample Time : ***1430***

Date Received: ***08/15/16***
Sample Type : ***Hops***
KAR Sample No. : ***610663-04H***

Test	Result as received ("wet")	Units	Method used	Analyzed Date	By	Result expressed as 10% moisture ("dried")
Moisture	*80.64*	*% by weight*	*Dried 145 deg. F*	*08/16/16*	*EIF*	
Hops-14	*See below*			*08/16/16*	*MHK*	
Prep, hops (HPLC)	*Completed*		*ASBC Hops-14*	*08/16/16*	*MHK*	
Alpha acids	*1.03*	*% by weight*	*ASBC Hops-14*	*08/16/16*	*MHK*	*4.8*
Beta acids	*1.02*	*% by weight*	*ASBC Hops-14*	*08/16/16*	*MHK*	*4.7*
Cohumulone	*33.2*	*% of Alpha acids*	*ASBC Hops-14*	*08/16/16*	*MHK*	
Colupulone	*51.0*	*% of Beta acids*	*ASBC Hops-14*	*08/16/16*	*MHK*	

HOP TESTING LABORATORY REPORT

Client: ***John Q. Customer***

KAR Project No. : ***610663***

Date Reported: ***08/16/16***

Analysis of four samples of hops - example report.

Column	Explanation
Test	The property or component we tested for in your sample
Result as received ("wet")	The actual findings of the Test on the sample as it was received at the laboratory
Units	The unit of measure that the Result is expressed in
Method used	The analytical test procedure the laboratory used to measure the Test
Analyzed	The date the test was performed and the initials of the analyst that performed that Test
Results expressed as 10% moisture ("dried")	Some users prefer results to be normalized to 10% moisture. The following formula is used for that purpose, and the number in this column represents that number: ***Result as received x (90 / (100 - %Moisture))*** Occasionally, this column may also contain a narative of any issues or problems encountered