# Alliance Analytical Laboratories, Inc.

179 West Randall Street Coopersville, MI 49404 Phone: (616) 837-7670 Fax: (616) 837-7701



# **TEST RESULTS** REPORT

Test methods marked with ^ are accredited under the laboratory's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-2044

**CUSTOMER** MI Local Hops

> 5720 S Bates Road Williamsburg, MI 49690 Phone: 1-231-360-1222

Email: alex@milocalhops.com; jason@milocalhops.com; tabitha@milocalhops.com;

SAMPLE DESCRIPTION

Willamette SD 12/11/18

**SAMPLE DATE** 

12/11/2018

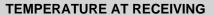
DATE RECEIVED

12/12/2018

REFERENCE NUMBER

180480: 1848044

**Customer PO** 



Test Requested	Test Method	Results	Ref Number	Start Date
HOPS:Alpha and Beta Acids-ASBC 6				
Alpha Acids	ASBC 6	2.99 %	BL10:42	12/20 12:00 PM
	Analyst: 24			
Beta Acids	ASBC 6	3.31 %	BL10:42	12/20 12:00 PM
	Analyst: 24			
HOPS:Brewers' Quality	^ASBC Hops-14			12/13 3:45 PM
	Analyst: 23			
10% Moisture Adjusted Alpha Acids		4.55 %	CV23:08	
	Analyst: 23			
10% Moisture Adjusted Beta Acids		3.55 %		
Alpha Acid	^ASBC Hops-14	4.66 %		
Beta Acid	^ASBC Hops-14	3.66 %		
Cohumulone	^ASBC Hops-14	34.9 % Relative to		
		Alpha		
Colupulone	^ASBC Hops-14	55.1 % Relative to Beta		
Hops Storage Index	ASBC Hops-12	0.37	BL10:42	12/20 12:00 PM
	Analyst: 24			
Moisture	ASBC Hops-4c	7.15 %		
Xanthohumol		0.12 %		

It is the customer's responsibility to evaluate the compliance of these results to any regulatory requirement.

THIS DOCUMENT CONTAINS TRADE SECRET/CONFIDENTIAL INFORMATION PURSUANT TO 5 U.S.C.(b)(4)
This report must not be reproduced, except in full, without written approval of the laboratory.

Reviewed and Approved by:

Date: 12/27/2018

Audrey Monroe - Laboratory Director

Page 1 of 2

Date:

12/27/2018

# Alliance Analytical Laboratories, Inc.

179 West Randall Street Coopersville, MI 49404 Phone: (616) 837-7670 Fax: (616) 837-7701



**TEST RESULTS REPORT** 

Test methods marked with ^ are accredited under the laboratory's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-2044

12/27/2018

Date:

**SAMPLE DESCRIPTION** Willamette

SD 12/11/18

**SAMPLE DATE** 12/11/2018

DATE RECEIVED 12/12/2018

REFERENCE NUMBER 180480: 1848044 **Customer PO** 

**TEMPERATURE AT RECEIVING** 



Test Requested	Test Method	Results	Ref Number	Start Date
HOPS:Total Oil	ASBC Hops-13 Analyst: 28	0.7 mL/100g	LL14:96	12/26 12:00 PM

It is the customer's responsibility to evaluate the compliance of these results to any regulatory requirement.

THIS DOCUMENT CONTAINS TRADE SECRET/CONFIDENTIAL INFORMATION PURSUANT TO 5 U.S.C.(b)(4)
This report must not be reproduced, except in full, without written approval of the laboratory.

Reviewed and Approved by:

Audrey Monroe - Laboratory Director

Date: 12/27/2018 Page 2 of 2