



Alliance Analytical Laboratories, Inc.

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



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

TEST RESULTS REPORT

CUSTOMER Dickinson Research Extension Center
1041 State Ave.
Dickinson, ND 58601
Phone: 701-290-3270
Email: jon.stika@ndsu.edu;

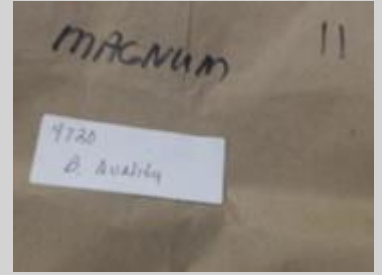
SAMPLE DESCRIPTION Magnum
SD 08/24/18

SAMPLE DATE 8/24/2018

DATE RECEIVED 8/30/2018

REFERENCE NUMBER 180347: 1834720 **Customer PO**

TEMPERATURE AT RECEIVING



Test Requested	Test Method	Results	Ref Number	Start Date
HOPS:Brewers' Quality	^ASBC Hops-14 Analyst: 23			9/4 9:56 AM
10% Moisture Adjusted Alpha Acids	Analyst: 23	12.1 %	CV19:72	9/4 9:56 AM
10% Moisture Adjusted Beta Acids	Analyst: 23	6.41 %	CV19:72	9/4 9:56 AM
Alpha Acid	^ASBC Hops-14 Analyst: 23	12.4 %	CV19:72	9/4 9:56 AM
Beta Acid	^ASBC Hops-14 Analyst: 23	6.57 %	CV19:72	9/4 9:56 AM
Cohumulone	^ASBC Hops-14 Analyst: 23	22.5% Relative To Alpha	CV19:72	9/4 9:56 AM
Colupulone	^ASBC Hops-14 Analyst: 23	45.9% Relative To Beta	CV19:72	9/4 9:56 AM
Hops Storage Index	ASBC Hops-12 Analyst: 24	0.22	BL08:66	9/5 12:00 PM
Moisture	ASBC Hops-4c Analyst: 23	7.78 %	CV19:74	9/4 9:56 AM

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

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PURSUANT TO 5 U.S.C.(b)(4)**

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Reviewed and Approved by:

Audrey Monroe - Laboratory Director

Date: 9/5/2018

Date: 9/5/2018



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SAMPLE DATE	8/24/2018	
DATE RECEIVED	8/30/2018	
REFERENCE NUMBER	180347: 1834720	
TEMPERATURE AT RECEIVING		

Test Requested	Test Method	Results	Ref Number	Start Date
Xanthohumol		1.04 %	CV19:72	9/4 9:56 AM
	Analyst: 23			

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