

**Order #:** BLU200227-020007      **Order Date:** 2020-02-27      **Collection Date:** 2020-02-28      **Report Date:** 2020-03-03

**Batch #:** 0487 CL  
**Sample #:** AAAD004  
**Specimen Type:** CBD/HEMP Derivative Products (Ingestion)  
**Extracted From:** Hemp  
**Description:** Classic

**Initial Gross Weight:** 41402mg  
**Method:** SOP-3



## Heavy Metals (Passed)

(ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	1500	<LOQ	10	Cadmium (Cd)	500	<LOQ	10	Lead (Pb)	500	<LOQ	10
Mercury (Hg)	3000	<LOQ	10								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Xueli Gao      Lab Toxicologist  
 Ph.D., DABT

Aixia Sun      Principal Scientist  
 D.H.Sc., M.Sc., B.Sc., MT (AAB)

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721 Cortaro Drive  
 Sun City Center, FL - 33573

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 F: +1 (813) 634-4538

E: [info@acslabcannabis.com](mailto:info@acslabcannabis.com)  
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Specimen Type: CBD/HEMP Derivative Products (Ingestion)  
Extracted From: Hemp  
Description: Classic

Initial Gross Weight: 41402mg  
Method: SOP-3



## Microbiology #5 (Petrifilm/Plating) (Passed) (Petrifilm)

Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)
Aerobic Bacteria	<LOQ	1000	E. Coli / Coliform	<LOQ	100	Yeast/Mold	<LOQ	1000

(cfu/g) = Colony Forming Unit per Gram, , LOQ = Limit of Quantitation

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Ph.D., DABT

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**Description:** Classic

**Initial Gross Weight:** 41402mg  
**Method:** SOP-3



### Mycotoxins (Passed)

(LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1		<LOQ	5	Aflatoxin B2		<LOQ	5	Aflatoxin G1		<LOQ	5
Aflatoxin G2		<LOQ	5	Aflatoxin Total	20	<LOQ	5	Ochratoxin A	20	<LOQ	5

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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 Ph.D., DABT

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Sample #: AAAD004  
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Extracted From: Hemp  
Description: Classic

Initial Gross Weight: 41402mg  
Method: SOP-3



## Pesticides (Passed)

(LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	300	<LOQ	28.23	Acephate	3000	<LOQ	30	Acequinocyl	2000	<LOQ	48
Acetamiprid	3000	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	3000	<LOQ	10
Bifenazate	3000	<LOQ	30	Bifenthrin	500	<LOQ	30	Chlorfenapyr	100	<LOQ	48
Chlorpyrifos	100	<LOQ	30	Clofentezine	500	<LOQ	30	Coumaphos	100	<LOQ	30
Cypermethrin	1000	<LOQ	30	Daminozide	100	<LOQ	30	DDVP(Dichlorvos)	100	<LOQ	30
Diazinon	200	<LOQ	30	Dimethoate	100	<LOQ	30	Dimethomorph	3000	<LOQ	30
Ethoprop(hos)	100	<LOQ	30	Etofenprox	100	<LOQ	30	Etoxazole	1500	<LOQ	30
Fenhexamid	3000	<LOQ	30	Fenoxycarb	100	<LOQ	30	Fipronil	100	<LOQ	30
Fonicamid	2000	<LOQ	30	Fludioxonil	3000	<LOQ	30	Hexythiazox	2000	<LOQ	30
Imazalil	100	<LOQ	30	Imidacloprid	3000	<LOQ	30	Kresoxim Methyl	1000	<LOQ	30
Malathion A	2000	<LOQ	30	Metalaxyl	3000	<LOQ	10	Methiocarb	100	<LOQ	30
Methomyl	100	<LOQ	30	Mevinphos	100	<LOQ	30	Myclobutanil	3000	<LOQ	30
Naled	500	<LOQ	30	Oxamyl	500	<LOQ	30	Paclobutrazol	100	<LOQ	30
Parathion-methyl	100	<LOQ	10	Pentachloronitrobenzene	200	<LOQ	30	Permethrin	1000	<LOQ	30
Piperonylbutoxide	3000	<LOQ	30	Prallethrin	400	<LOQ	30	Phosmet	200	<LOQ	30
Propoxur	100	<LOQ	30	Pyrethrins	1000	<LOQ	30	Propiconazole	1000	<LOQ	30
Spinetoram	3000	<LOQ	30	Spinosyn A	3000	<LOQ	30	Pyridaben	3000	<LOQ	30
Spiromesifen	3000	<LOQ	30	Spirotetramat	3000	<LOQ	30	Spinosyn D	3000	<LOQ	30
Tebuconazole	1000	<LOQ	30	Thiacloprid	100	<LOQ	30	Spiroxamine	100	<LOQ	30
Trifloxystrobin	3000	<LOQ	30					Thiamethoxam	1000	<LOQ	30

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## Certificate of Analysis

### Bluebird Botanicals

500 S Arthur Ave #300  
Louisville Colorado 80027 United States

<b>Sample Name:</b>	<b>0487 CL</b>	<b>Eurofins Sample:</b>	<b>9318288</b>
<b>Project ID</b>	BLUEBIR_BO-20200227-0027	<b>Receipt Date</b>	28-Feb-2020
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>		<b>Login Date</b>	27-Feb-2020
		<b>Date Started</b>	01-Mar-2020
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	12704-131ACBAD

#### Analysis

#### Result

#### Industrial Hemp Cannabinoid Profile

CBDVA	<0.0234 mg/mL
CBDV	0.0597 mg/mL
CBDA	0.266 mg/mL
CBGA	<0.0234 mg/mL
CBG	0.248 mg/mL
CBD	9.15 mg/mL
THCV	<0.0234 mg/mL
CBN	<0.0234 mg/mL
Delta 9-THC	0.467 mg/mL
Delta 8-THC	<0.0468 mg/mL
THCA	<0.0234 mg/mL
CBC	0.516 mg/mL
Total Cannabinoids	10.7 mg/mL
Total THC (THC + (THCA x 0.877))	0.467 mg/mL
Total CBD (CBD + (CBDA x 0.877))	9.39 mg/mL
CBDVA	<0.0234 mg/mL
CBDV	0.0597 mg/mL
CBDA	0.266 mg/mL
CBGA	<0.0234 mg/mL
CBG	0.253 mg/mL
CBD	9.30 mg/mL
THCV	<0.0234 mg/mL
CBN	<0.0234 mg/mL
Delta 9-THC	0.520 mg/mL
Delta 8-THC	<0.0468 mg/mL
THCA	<0.0234 mg/mL
CBC	0.497 mg/mL
Total Cannabinoids	10.9 mg/mL
Total THC (THC + (THCA x 0.877))	0.520 mg/mL
Total CBD (CBD + (CBDA x 0.877))	9.54 mg/mL

#### Method References

#### Testing Location

## Certificate of Analysis

### Bluebird Botanicals

500 S Arthur Ave #300  
Louisville Colorado 80027 United States

#### Method References

#### Testing Location

#### Industrial Hemp Cannabinoid Profile (IHCBD\_S)

#### Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

#### Testing Location(s)

#### Released on Behalf of Eurofins by

#### Food Integrity Innovation-Madison

Edward Ladwig - Director

Eurofins Food Chemistry Testing US, Inc.  
3301 Kinsman Blvd  
Madison WI 53704  
800-675-8375



2918.01

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.

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Sample #: AAAD004  
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Description: Classic

Initial Gross Weight: 41402mg  
Method: SOP-3



### Residual Solvents - FL (Passed)

### (GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Acetone	5000	<LOQ	100	Acetonitrile	410	<LOQ	0.96	Benzene	2	<LOQ	0.016
Butanes	2000	<LOQ	13.32	Chloroform	60	<LOQ	0.032	Ethanol	5000	<LOQ	100
Ethyl Acetate	5000	<LOQ	6.4	Ethyl Ether	5000	<LOQ	8	Hexane	290	<LOQ	0.8
Isopropyl alcohol	500	<LOQ	100	Methanol	3000	<LOQ	4	Pentane	5000	<LOQ	200
Toluene	890	<LOQ	2.4								

(ppm) = Parts per Million, (µg/g), , LOQ = Limit of Quantitation

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Extracted From: Hemp  
Description: Classic

Initial Gross Weight: 41402mg  
Method: SOP-3



## Terpenes - FL (Tested)

## (GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol	<LOQ		0.001	(R)-(+)-Limonene	<LOQ		0.001	3-Carene	<LOQ		0.001
Alpha-Bisabolol	<LOQ		0.001	alpha-Cedrene	<LOQ		0.001	alpha-Humulene	<LOQ		0.001
alpha-Phellandrene	<LOQ		0.001	alpha-Pinene	<LOQ		0.001	alpha-Terpinene	<LOQ		0.001
Borneol	<LOQ		0.001	beta-Myrcene	<LOQ		0.001	beta-Pinene	<LOQ		0.001
Caryophyllene oxide	<LOQ		0.001	Camphene	<LOQ		0.001	Camphors	<LOQ		0.001
Fenchyl Alcohol	<LOQ		0.001	cis-Nerolidol	<LOQ		0.001	Eucalyptol	<LOQ		0.001
Guaiol	<LOQ		0.001	Farnesene	<LOQ		0.001	Fenchone	<LOQ		0.001
Isopulegol	<LOQ		0.001	gamma-Terpinene	<LOQ		0.001	Geraniol	<LOQ		0.001
Ocimene	<LOQ		0.001	Hexahydrothymol	<LOQ		0.001	Geranyl acetate	<LOQ		0.001
Sabinene Hydrate	<LOQ		0.001	Linalool	<LOQ		0.001	Isoborneol	<LOQ		0.001
trans-beta-Ocimene	<LOQ		0.001	Linalool	<LOQ		0.001	Nerol	<LOQ		0.001
				Pulegone	<LOQ		0.001	Sabinene	<LOQ		0.001
				Terpineol	<LOQ		0.001	Terpinolene	<LOQ		0.001
				trans-Caryophyllene	<LOQ		0.001	trans-Nerolidol	<LOQ		0.001
								Valencene	<LOQ		0.001

(mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation

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500 South Arthur Ave Unit 300, Louisville, CO, 80027  
 720-726-5132  
[www.bluebirdbotanicals.com](http://www.bluebirdbotanicals.com)

Finished Product Specification : **Hemp Classic Blend**

**Description**

Hemp Classic is an oil meant for oral ingestion. It consists of CO2 hemp extract made from Colorado grown hemp blended with cold pressed organic hemp seed oil. It is a dietary supplement.

**General information**

<b>Application and Use</b>	Dietary Supplement
<b>Composition</b>	Proprietary blend of hemp extract, hemp seed oil
<b>Organic status of raw materials</b>	Extract: not certified Hemp seed oil: certified organic
<b>Organic Certification</b>	Not certified organic
<b>Storage and Shelf Life</b>	500 days from date of production in original packaging. Store cool dark and dry.
<b>Packaging</b>	10ml, 1oz, 2oz amber glass bottle with tamper-evident dropper cap with graduated glass pipette

**Ingredients**

<b>Ingredient</b>	Hemp seed oil	<b>Item Code</b>	HSO
<b>Botanical Name</b>	<i>Cannabis sativa</i>	<b>Organic Certification</b>	Certified organic
<b>Plant parts used in oil</b>	Seed	<b>Country of Origin</b>	Canada

<b>Ingredient</b>	Hemp extract	<b>Item Code</b>	PSD
<b>Botanical Name</b>	<i>Cannabis sativa</i>	<b>Organic Certification</b>	Not certified
<b>Plant parts used in oil</b>	Seed, stem, flower	<b>Country of Origin</b>	Colorado, USA

<b>Ingredient</b>	Hemp Extract (CBD Isolate)	<b>Item Code</b>	ISO
<b>Botanical Name</b>	<i>Cannabis sativa</i>	<b>Organic Certification</b>	Not certified
<b>Plant parts used in oil</b>	Seed, Stem, Flower	<b>Country of Origin</b>	USA

Our Low THC Hemp Extract Product is manufactured by Bluebird Botanicals according to cGMP practices.

Batch: CL 0487	Batch Size: 372.5 Liters (348.7 Kg)
Total Quantity Produced: 10 ml bottle: 3,161 30 ml bottle: 3,732 60 ml bottle: 3,100 Volume allocated to bulk wholesale purchasing: 40931 ml (40.931 liters) Yield: 100.13%	Supplier Lot Codes: Primary Ingredient:CO-0049 Carrier: 64-EULAFIO-01

**Specification**

<b>Appearance</b>	Green - brown, oily liquid
<b>Odor</b>	Grassy, earthy odor
<b>Consistency</b>	Viscous below 32 degrees Fahrenheit
<b>Density</b>	0.915 mg/mL - 0.925 mg/mL
<b>Solubility</b>	Soluble in ethanol and oils

**Assay**

<b>Potency</b> - Method: IHCBD_S	
Total Cannabidiol	250 - 300 mg/ounce
Tetrahydrocannabinol (THC)	< 0.2%

<b>Heavy Metals</b> - Method : ICP-MS
---------------------------------------



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Arsenic	< 10 ppb
Cadmium	< 10 ppb
Mercury	< 10 ppb
Lead	< 10 ppb

Mycotoxins - Method: LCMS/MS	
Total Aflatoxin	< 5 ppb
Total Ochratoxin	< 5 ppb

Microbiological Contamination - Method: Petrifilm	
Total Aerobic Bacteria	< 1,000 CFU/g
Total E. coli / Coliforms	< 100 CFU/g
Total Yeast & Mold	< 1,000 CFU/g

Solvents - Method: GC/GCMS	
N - Butane	< 200 ppm
I - Butane	< 100 ppm
Pentane	< 389.5 ppm
Ethanol	< 26.7 ppm
Acetone	< 87.9 ppm
Isopropanol	< 52.3 ppm
Hexane	< 36.6 ppm
Benzene	< 1.6 ppm
Methanol	< 87.9 ppm
Toluene	< 18 ppm
Chloroform	< 53 ppm

Pesticides - Method: LCMS/MS	
Abamectin	< 30 ppb
Acephate	< 30 ppb
Acequinocyl	< 48 ppb
Acetamiprid	< 30 ppb
Aldicarb	< 30 ppb
Azoxystrobin	< 30 ppb
Bifenazate	< 30 ppb
Bifenthrin	< 30 ppb
Chlorfenapyr	< 30 ppb
Chlorpyrifos	< 30 ppb
Clofentezine	< 30 ppb
Coumaphos	< 30 ppb
Cyfluthrin	< 30 ppb
Cypermethrin	< 30 ppb
DDVP (Dichlorvos)	< 30 ppb
Daminozide	< 30 ppb
Dimethomorph	< 30 ppb
Diazinon	< 30 ppb
Dimethoate	< 30 ppb
Ethoprop(hos)	< 30 ppb
Etofenprox	< 30 ppb



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Etoazole	< 30 ppb
Fenhexamid	< 30 ppb
Fenoxycarb	< 30 ppb
Fipronil	< 30 ppb
Imazalil	< 30 ppb
Imidacloprid	< 30 ppb
Kresoxim Methyl	< 30 ppb
Malathion A	< 30 ppb
Metalaxyl	< 30 ppb
Methiocarb	< 30 ppb
Methomyl	< 30 ppb
Mevinphos	< 30 ppb
Myclobutanil	< 30 ppb
Naled	< 30 ppb
Oxamyl	< 30 ppb
Paclobutrazol	< 30 ppb
Parathion-methyl	< 30 ppb
Pentachloronitrobenzene	< 30 ppb
Permethrin	< 30 ppb
Phosmet	< 30 ppb
Piperonylbutoxide	< 30 ppb
Prallethrin	< 30 ppb
Propiconazole	< 30 ppb
Propoxur	< 30 ppb
Pyrethrin	< 30 ppb
Pyridaben	< 30 ppb
Spinetoram	< 30 ppb
Spinosyn A	< 30 ppb
Spinosyn D	< 30 ppb
Spiromesifen	< 30 ppb
Spirotetramat	< 30 ppb
Spiroxamine	< 30 ppb
Tebuconazole	< 30 ppb
Thiacloprid	< 30 ppb
Thiamethoxam	< 30 ppb
Trifloxystrobin	< 30 ppb

DISCLOSURE OF PRODUCT COMPONENTS: OUR LOW THC HEMP EXTRACT PRODUCTS ARE BLENDED USING A COMBINATION OF FULL SPECTRUM CANNABINOID EXTRACTS, ORGANIC CARRIER OILS AND ESSENTIAL OILS, THE CONTENTS, IDENTITY AND PURITY OF WHICH HAVE BEEN TESTED USING A VARIETY OF METHODS, INCLUDING AOAC-APPROVED METHODS OF ANALYSIS. AOAC INTERNATIONAL IS AN INDEPENDENT, INTERNATIONALLY RECOGNIZED 501(C)(3) NOT-FOR-PROFIT ASSOCIATION WHOSE ANALYTICAL STANDARDS APPLY TO A BROAD RANGE OF INDUSTRIES INCLUDING FOODS, BEVERAGES AND DIETARY SUPPLEMENTS. INGREDIENT AND SERVICE PROVIDERS HAVE BEEN QUALIFIED BY AN INTERNAL QUALITY MANAGEMENT TEAM ACCORDING TO A CGMP-COMPLIANT PROTOCOL. THE QUALIFICATION OF A SUPPLIER ENTAILS INGREDIENT TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING ASSAYS: FATTY ACIDS (OFFICIAL METHODS OF ANALYSIS OF AOAC INTERNATIONAL, 18TH ED., METHODS 922.06 AND 954.02), PEROXIDE VALUE (AOAC INTERNATIONAL, OFFICIAL METHODS 965.33 AND 983.23), YEAST AND MOLD ANALYSIS (AOAC INTERNATIONAL, OFFICIAL METHOD 997.02), AEROBIC PLATE COUNT (AOAC INTERNATIONAL, OFFICIAL METHOD 990.12), ELEMENTS (AOAC INTERNATIONAL, OFFICIAL METHODS 2011.19 AND 993.14), REGULATED MYCOTOXINS (CITATION: ANALYTICAL AND BIOANALYTICAL CHEMISTRY, 402:2675-2686), E. COLI AND COLIFORMS (AOAC INTERNATIONAL, OFFICIAL METHOD 991.14), MULTI-RESIDUE ANALYSIS (AOAC INTERNATIONAL, OFFICIAL METHOD 2007.01), GLUTEN (AOAC INTERNATIONAL, OFFICIAL METHOD 2012.01), RESIDUAL SOLVENTS (UNITED STATES PHARMACOPEIA METHOD 467). THE AFOREMENTIONED METHODS OF ANALYSIS UTILIZE BUT ARE NOT NECESSARILY LIMITED TO QUANTIFICATION BY HPLC, UPLC/MS, GC/MS, IAC, SFC, ICP-MS. INGREDIENT CONSISTENCY IS ADDITIONALLY EVALUATED THROUGH REGULAR ORGANOLEPTIC SCREENING TO CONTROL TASTE, ODOR, COLOR AND CONSISTENCY. THE FOLLOWING SUPPLIERS/ MANUFACTURERS/SERVICE PROVIDERS HAVE BEEN QUALIFIED BY INTERNAL QUALITY MANAGEMENT: HEMP PRODUCTION SERVICES, SUPPLIER OF ORGANIC HEMP SEED OIL, JEDWARDS INTERNATIONAL, SUPPLIER OF ORGANIC HEMP SEED OIL, ZIVO INC. AND VAPOR DISTILLED, MANUFACTURERS/SUPPLIERS OF HEMP EXTRACTS. PROPRIETARY LOW THC HEMP EXTRACT PRODUCTS ARE MANUFACTURED BY BLUEBIRD BOTANICALS ACCORDING TO CGMP PRACTICES. ALL PRODUCTS ARE TESTED FOR MYCOTOXINS, PESTICIDES, ELEMENTS, RESIDUAL SOLVENTS, TERPENE PROFILES AND CANNABINOID POTENCY TO CONTROL ADHERENCE TO PRODUCT SPECIFICATIONS AND GUARANTEE CONFORMITY TO THE STRICT DEFINITION OF INDUSTRIAL HEMP (<0.3% DELTA9-THC, INCLUDING PRECURSORS). THIRD PARTY LABORATORY ANALYSIS IS CONDUCTED BY BOTANACOR SERVICES, DELTA VERDE LABORATORY, PROVERDE LABORATORIES AND COVANCE INC. ISO ACCREDITED (ISO 17025) ASSAYS ARE PROVIDED BY PROVERDE LABORATORIES AND COVANCE INC. SEE PRODUCT SPECIFICATION SHEET ABOVE FOR PRODUCT/INGREDIENT BATCH INFORMATION AND PROJECTED PACKAGING PLAN. ALL SUPPLIERS OF PACKAGING SUPPLIES HAVE BEEN QUALIFIED ACCORDING TO CGMP STANDARDS.