



# CERTIFICATE OF ANALYSIS



**Customer:** Bluebird Botanicals - Louisville, CO 80027

<b>Order #:</b> 709896	<b>Specimen Type:</b> Extract	<b>Initial Gross Weight:</b> 39456.00(mg)
<b>Batch #:</b> 0465 S	<b>Description:</b> Hemp CBD Oil	<b>Specimen Weight:</b> 116.09(mg)
<b>Order Date:</b> 12/10/2019	<b>Extracted From:</b> HEMP	<b>Density:</b> 0.9333(g/ml)
<b>Collection Date:</b> 12/10/2019	<b>Method:</b> SOP-3	
<b>Report Date:</b> 12/17/2019		

**Pathogenic ( Passed )** (qPCR)

Analyte	Result
Listeria	Passed

Xueli Gao, Ph.D., DABT  
Lab Toxicologist

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

\* Total CBD = CBD + (CBD-A \* 0.877). Total THC = THCA-A \* 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg),

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Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.

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