

Print

Certificate of Analysis



Customer Information

**Client:** Blue Deer Nutraceuticals Inc.  
**Attention:** (214) 554-7649  
**Address:** 8516 Westfield Dr  
Dallas, TX 75243

Testing Facility

**Lab:** Cora Science, LLC  
**Address** 8000 Anderson Square, STE 113  
Austin, Texas 78757  
**Contact:** info@corascience.com  
(512) 856-5007

Sample Image(s)



Sample Information

**Name:** KPOW capsule 2 count  
**Lot Number:** KEC82624-2  
**Description:** Hard-shell capsule  
**Condition:** Good  
**Job ID:** ISO02481  
**Sample ID:** I05987  
**Received:** 06SEP2024  
**Completed:** 13SEP2024  
**Issued:** 16SEP2024

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102      Tested: 13SEP2024 | 0723

| PARAMETER | SPECIFICATION | RESULT | UNIT | LOQ | NOTES |
|-----------|---------------|--------|------|-----|-------|
|-----------|---------------|--------|------|-----|-------|

|                           |                |       |         |      |     |
|---------------------------|----------------|-------|---------|------|-----|
| Mitragynine               | Report Results | 93.6  | mg/unit | 0.05 | N/A |
| 7-Hydroxymitragynine      | Report Results | 0.034 | mg/unit | 0.01 | N/A |
| Paynantheine              | Report Results | 11.4  | mg/unit | 0.05 | N/A |
| Speciogynine              | Report Results | 7.78  | mg/unit | 0.05 | N/A |
| Speciociliatine           | Report Results | 7.42  | mg/unit | 0.05 | N/A |
| Total Mitragyna Alkaloids | Report Results | 120   | mg/unit | 0.05 | N/A |

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 13SEP2024 | 0723

| PARAMETER                 | SPECIFICATION  | RESULT | UNIT | LOQ   | NOTES |
|---------------------------|----------------|--------|------|-------|-------|
| Mitragynine               | Report Results | 19.5   | w/w% | 0.011 | N/A   |
| 7-Hydroxymitragynine      | Report Results | 0.007  | w/w% | 0.003 | N/A   |
| Paynantheine              | Report Results | 2.38   | w/w% | 0.011 | N/A   |
| Speciogynine              | Report Results | 1.62   | w/w% | 0.011 | N/A   |
| Speciociliatine           | Report Results | 1.54   | w/w% | 0.011 | N/A   |
| Total Mitragyna Alkaloids | Report Results | 25.0   | w/w% | 0.011 | N/A   |

Elemental Impurities (ICP-MS)

Method Code: T301

Tested: 11SEP2024 | 1149

| PARAMETER | SPECIFICATION | RESULT  | UNIT | LOQ    | NOTES |
|-----------|---------------|---------|------|--------|-------|
| Arsenic   | NMT 1.5       | <LOQ    | ug/g | 0.0060 | PASS  |
| Cadmium   | NMT 0.5       | <LOQ    | ug/g | 0.0020 | PASS  |
| Lead      | NMT 0.5       | 0.00518 | ug/g | 0.0020 | PASS  |
| Mercury   | NMT 0.2       | <LOQ    | ug/g | 0.0020 | PASS  |

Microbiological Examination

Method Code: T005

Tested: 09SEP2024 | 1012

| PARAMETER                 | SPECIFICATION       | RESULT       | UNIT  | LOQ         | NOTES |
|---------------------------|---------------------|--------------|-------|-------------|-------|
| Total Aerobic Plate Count | 10,000,000 CFU / g  | 410          | CFU/g | 20 CFU / g  | PASS  |
| Total Yeast and Mold      | 100,000 CFU / g     | 60           | CFU/g | 20 CFU / g  | PASS  |
| Total Coliforms           | 10,000 CFU / g      | Not Detected | CFU/g | 20 CFU / g  | PASS  |
| Escherichia coli          | Not Detected in 1 g | Not Detected | N/A   | 1 CFU / 1 g | PASS  |
| Salmonella                | Not Detected in 1 g | Not Detected | N/A   | 1 CFU / 1 g | PASS  |
| Staphylococcus            | Not Detected in 1 g | Not Detected | N/A   | 1 CFU / 1 g | PASS  |

## Additional Report Notes

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T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured unit weight of 0.481 grams. For potency analysis, the outer capsule shell was removed and not included in the w/w% potency or unit weight analysis.

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## Revision History

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rev 00 - Initial release.

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## Abbreviations

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**ID:** identification, **N/A:** not applicable, **LOQ:** limit of quantitation, **CFU:** colony forming units, **w/w%:** weight by weight percent, **mg:** milligrams, **g:** grams, **ug:** micrograms, **mL:** milliliters, **ND:** not detected, **<LOQ:** below limit of quantitation, **NMT:** no more than, **NLT:** no less than, **UHPLC:** ultra-high performance liquid chromatography, **GC:** gas chromatography, **DAD:** diode array detection/detector, **MS:** mass spectroscopy/spectrometer, **ICP:** inductively coupled plasma, **ISO:** International Organization for Standardization, **USP:** United States Pharmacopeia

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## Authorization

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This report has been authorized for release from Cora Science by:

**Signature:** 

**Name:** Tyler West

**Position:** Laboratory Director  
**Department:** Management  
**Date:** 16SEP2024