FREEDOM DIAGNOSTICS

# Certificate of Analysis

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| | |
|---|---|
| **Client:** | Protide Health |
| **Accession #:** | 2611041206 |
| **Search Code:** | Prot2611041206 |
| **Received:** | 11/4/2026 |
| **Reported:** | 11/5/2026 |
| **Lot:** | PH-10-0826 |

## Sample Summary

| | | | |
|---|---|---|---|
| Product: | **KPV 10mg** | Purity: | **Sample 1: 99.14%**<br>**Sample 2: 99.12%** |
| Identity: | **Confirmed** | Net Content: | **Sample 1: 12.21 mg**<br>**Sample 2: 12.37 mg** |
| Appearance: | **White Lyophilized Powder** | | |
| Endotoxin Threshold: | **Pass** | | |
| Microbial Analysis (PCR): | **Pass** | | |
| Elemental Impurities (ICP-MS): As \| Cd \| Pb \| Hg | **Pass** | | |
| Fentanyl | **No Fentanyl Detected** | | |

## Analytical Results

| Test | Result |
|---|---|
| Identity (LC-MS) | **KPV** |
| Purity (HPLC-UV) | **99.13%** |
| Elemental Impurities (ICP-MS): | **Pass — Arsenic, Cadmium, Lead and Mercury below limits** |
| Net Content | **12.29 mg** |

*Method: Endotoxin testing performed using Limulus Amebocyte Lysate assay in accordance with USP <85> under validated laboratory conditions.*

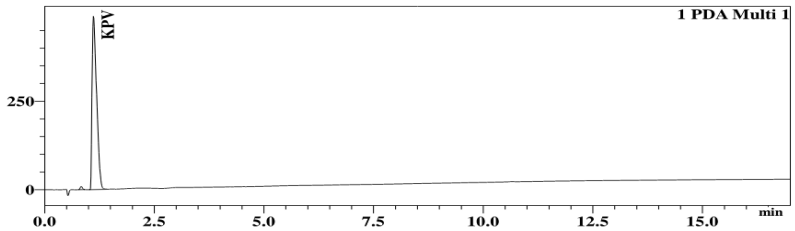
| | | |
|---|---|---|
| Endotoxin Replicate 1: | **Pass** | Assay Sensitivity: ≤0.05 EU/mL |
| Endotoxin Replicate 2: | **Pass** | Assay Sensitivity: ≤0.05 EU/mL |

*Method: Microbial detection performed using validated polymerase chain reaction (PCR)-based assay targeting common microbial contaminants.*

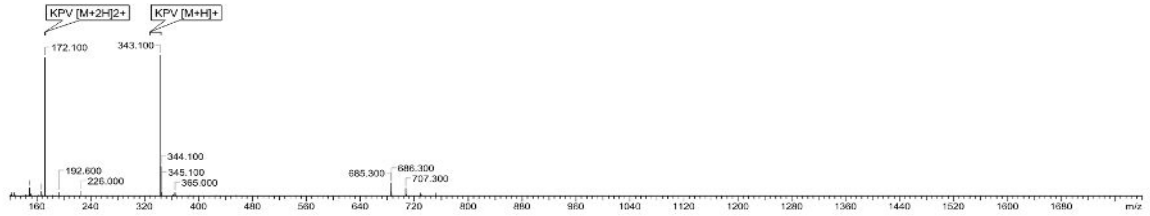
Microbial Analysis (PCR) **No Detectable Microbial DNA**

*Method: HPLC with UV detection coupled with mass spectrometry (LC-MS).*

### Chromatogram




### Mass Confirmation




Principal Chemist
CoA Template v3.1

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The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. This analysis is for informational purposes only and is specific to the sample(s) provided. The peptides tested are for research use only and are not approved for human, veterinary, diagnostic, therapeutic, or clinical use. Results should be interpreted by qualified professionals. Accuracy may be influenced by sample integrity, handling, and other experimental variables.