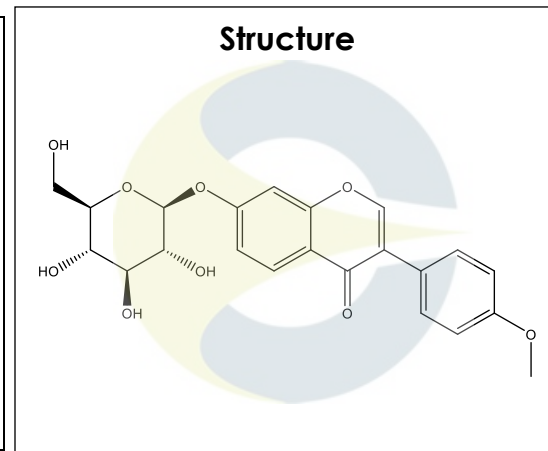


Certificate of Analysis
For Laboratory Use Only

| | |
|-----------------------|--------------------------|
| PRODUCT NAME | Ononin |
| PART NUMBER | 00015371 |
| STANDARD TYPE | Analytical Standard (AS) |
| LOT NUMBER | 00015371-701 |
| REPORT NUMBER | CDXA-RSS-9387-00 |
| SAMPLE NUMBER | CDXP-21-00380 |
| DATE OF SAMPLE | 05/17/2021 |
| DATE OF REPORT | 06/24/2021 |



| | |
|------------------------------|---|
| CHEMICAL NAMES | 7-(β-D-Glucopyranosyloxy)-3-(4-methoxyphenyl)-4H-1-benzopyran-4-one; 7-Hydroxy-4'-methoxyisoflavone-7-O- β -D-glucoside; Formononetin-7-O- β -D-glucopyranoside |
| CHEMICAL FORMULA | C ₂₂ H ₂₂ O ₉ |
| MOLECULAR WEIGHT (MW) | 430.41 |
| CHEMICAL FAMILY | Isoflavones |
| CAS NUMBER | [486-62-4] |
| EC#(EINECS) | NA |
| RTECS | NA |

ANALYTICAL RESULTS

| TEST | METHOD | SPECIFICATION | RESULT |
|---------------|-------------------|---------------|--------------|
| HPLC | 0.700.10.2.METH22 | ≥ 75% | 99.7% |
| Mass Spectrum | 0.700.12.27 | Conforms | Conforms |
| Appearance | NA | NA | White powder |

STORAGE CONDITIONS

| | |
|------------------------|-------------------------------------|
| STORAGE | Room Temperature in a dry place. |
| EXPIRATION DATE | 05/2026 under the above conditions. |

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

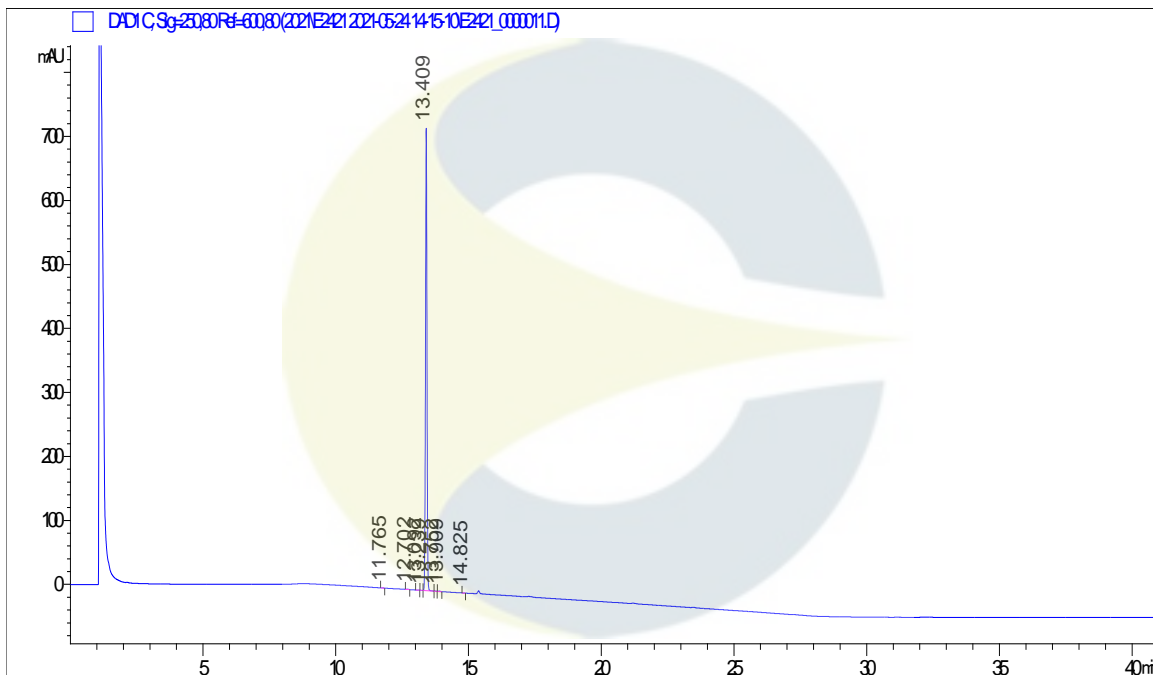
Certificate of Analysis

For Laboratory Use Only

ANALYTICAL CONDITIONS

| | |
|------------------------|--|
| INSTRUMENT | AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF |
| COLUMN | Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size |
| MOBILE PHASE | A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes. |
| COLUMN TEMP. | 60 °C |
| FLOW RATE | 0.4 mL/minute |
| INJECTION VOL. | 0.4 µL |
| INJECTION CONC. | 0.97 mg/mL in Dimethyl Sulfoxide |
| DETECTION | 250 ± 40 nm |

HPLC CHROMATOGRAM OF ONONIN (CDXP-21-00380)

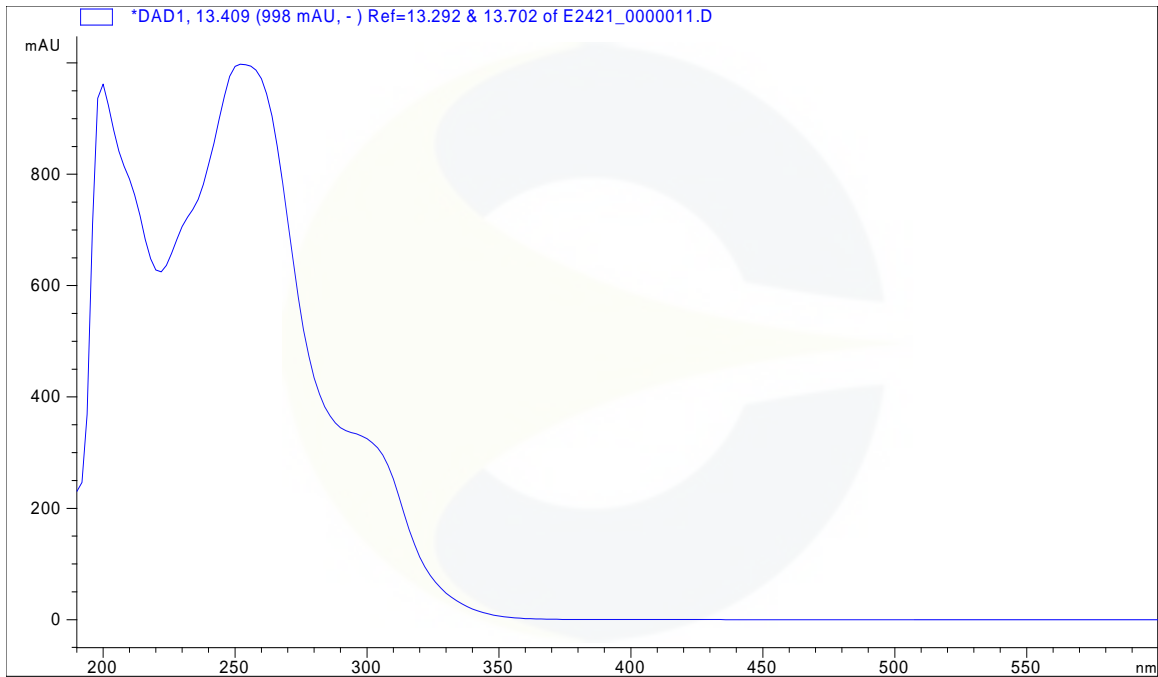


This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

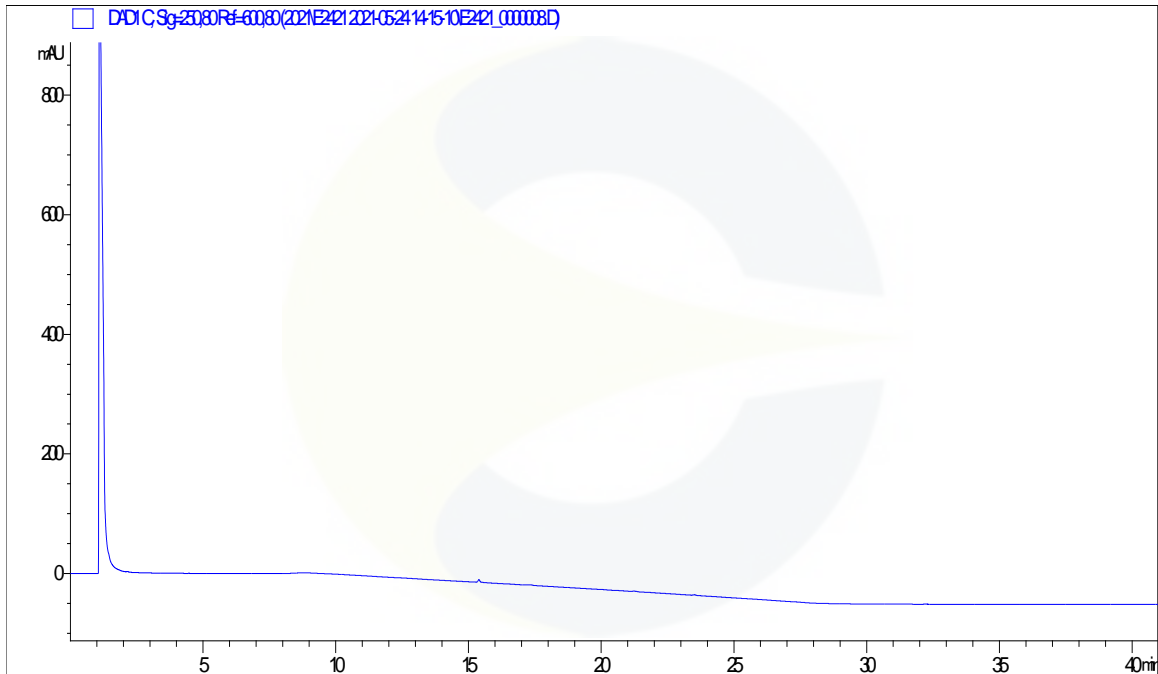
Certificate of Analysis

For Laboratory Use Only

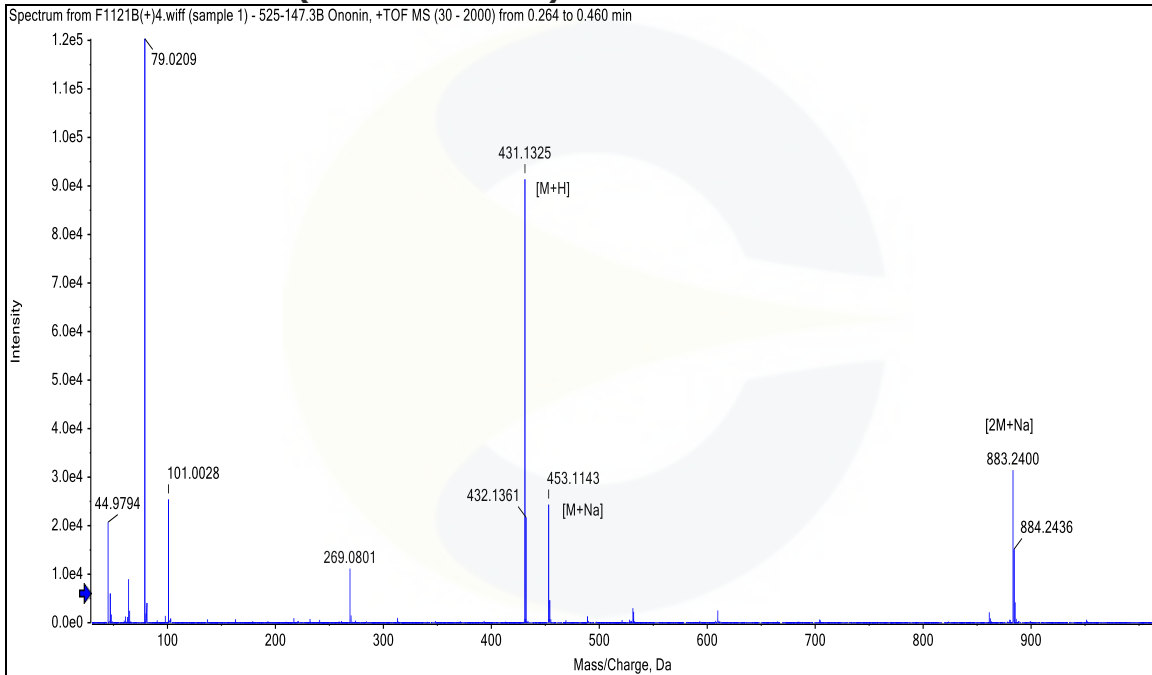
UV SPECTRUM AT RT = 13.4 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

Certificate of Analysis
For Laboratory Use Only
MASS SPECTRUM OF ONONIN (CDXP-21-00380)

REVISION HISTORY

| <u>Revision History</u> | <u>Date of Revision</u> | <u>Document/Changes</u> |
|-------------------------|-------------------------|-------------------------|
| 00 | 06/24/2021 | New report |

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.