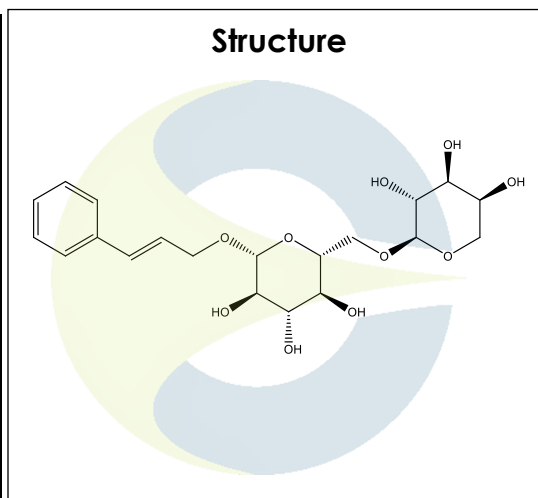


Certificate of Analysis
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| | |
|------------------------------|------------------|
| PRODUCT NAME | Rosavin |
| PART NUMBER | 00018365 |
| STANDARD TYPE | Primary (P) |
| LOT NUMBER | 00018365-143 |
| REPORT NUMBER | CDXA-RSS-8155-01 |
| SAMPLE NUMBER | CDXP-18-00752 |
| DATE OF SAMPLE | 07/16/2018 |
| DATE OF RE-EVALUATION | 06/15/2022 |
| DATE OF REPORT | 07/11/2022 |



| | |
|------------------------------|---|
| CHEMICAL NAMES | (2E)-3-Phenyl-2-propen-1-yl 6-O- α -L-arabinopyranosyl- β -D-glucopyranoside; Rosavidin |
| CHEMICAL FORMULA | C ₂₀ H ₂₈ O ₁₀ |
| MOLECULAR WEIGHT (MW) | 428.43 |
| CHEMICAL FAMILY | Cinnamyl diglycoside |
| CAS NUMBER | [84954-92-7] |
| EC#(EINECS) | 875-667-1 |
| RTECS | LZ5985890 |

ANALYTICAL RESULTS

| TEST | METHOD | SPECIFICATION | RESULT |
|-------------------|----------------------|-----------------------|---------------------------|
| Adjusted Purity | NA | ≥ 85% | 99.0% |
| HPLC | 0.700.10.2.METH22 | ≥ 90% | 99.0% |
| NMR | 99.1-04-2.0-000122 | Conforms to structure | Conforms to structure |
| Mass Spectrum | 99.1-04-3.0-000126 | Conforms | Conforms |
| Residual Solvent* | 99.1-CDXA-3.0-000621 | NA | ND |
| Water | 0.700.12.37 | NA | ND |
| Appearance | NA | NA | Off-White to Beige powder |

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.0% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.0% HPLC

STORAGE CONDITIONS

| | |
|------------------------|-------------------------------------|
| STORAGE | +4 °C in a dry place. |
| EXPIRATION DATE | 06/2027 under the above conditions. |

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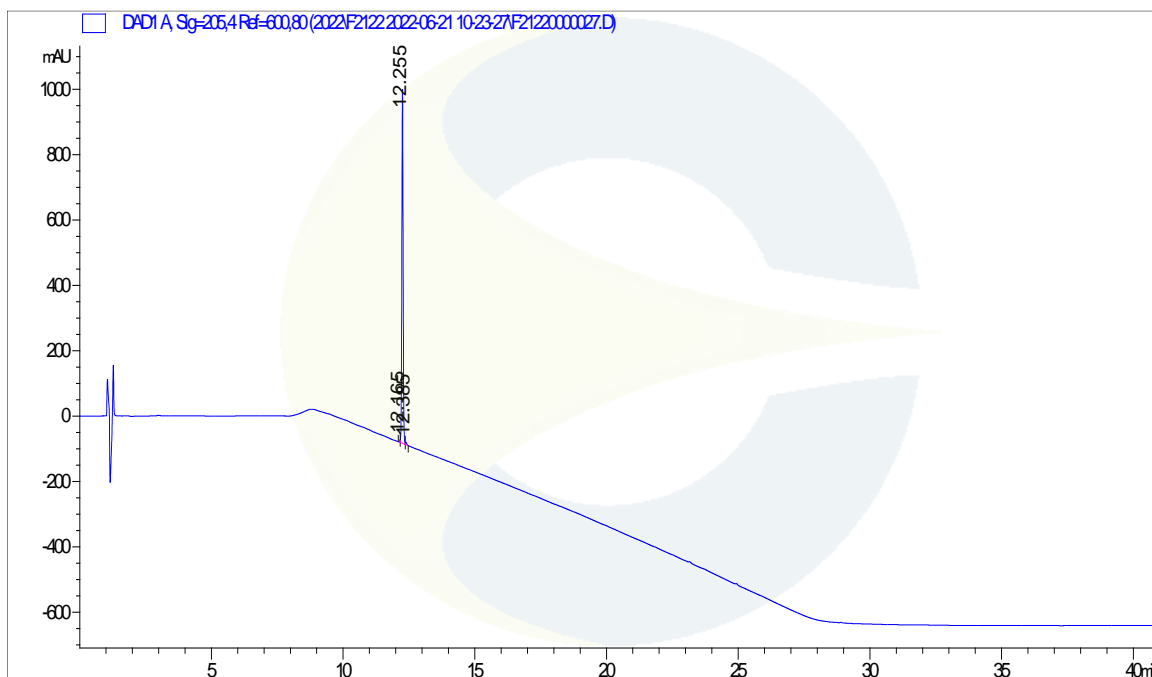
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ANALYTICAL CONDITIONS

| | |
|------------------------|---|
| 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, then decreasing to 5% B over 1 minute. |
| COLUMN TEMP. | 60 °C |
| FLOW RATE | 0.4 mL/minute |
| INJECTION VOL. | 0.5 µL |
| INJECTION CONC. | 1.1 mg/mL in Methanol |
| DETECTION | 205 ± 2 nm |

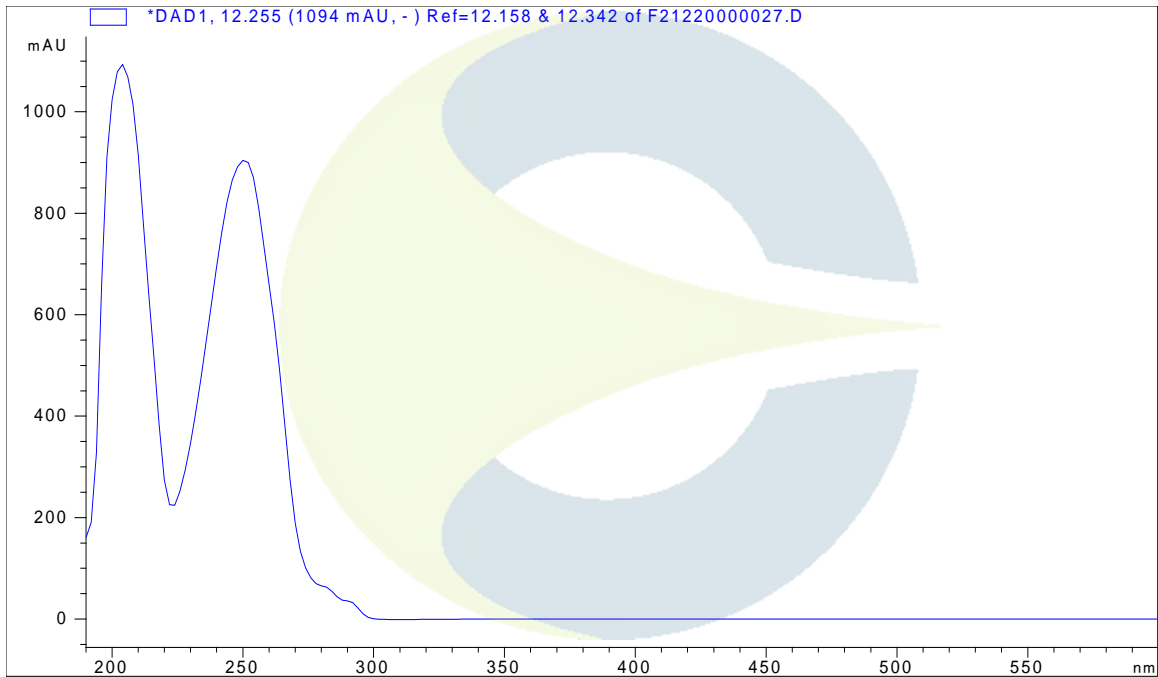
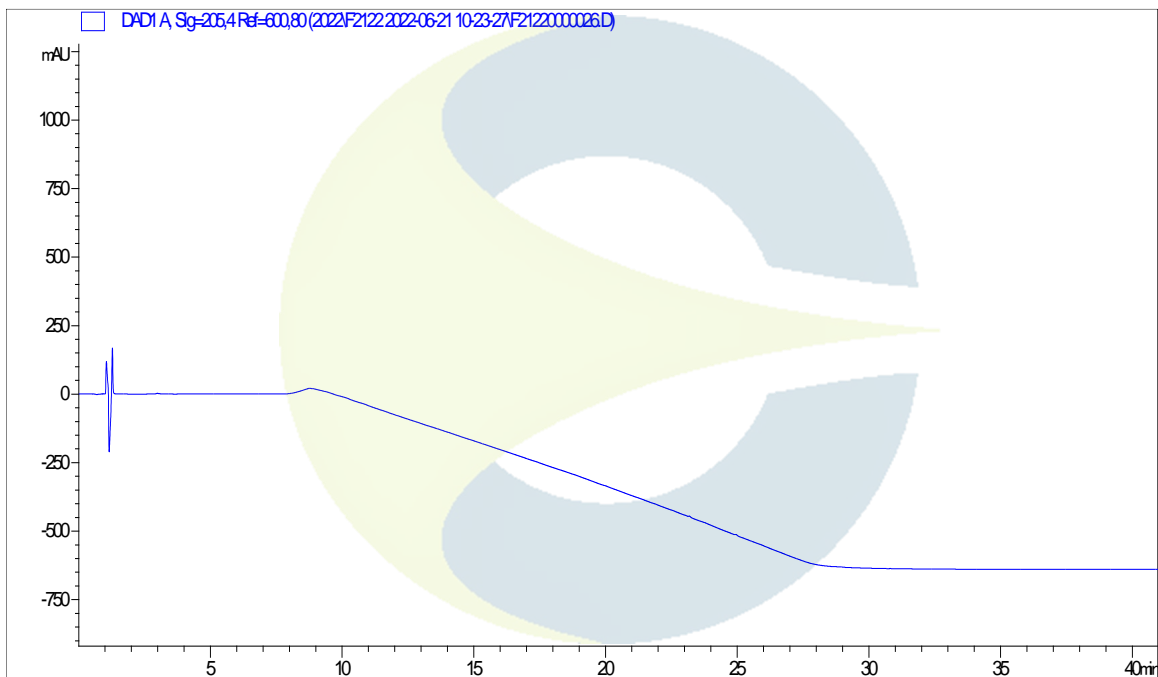
HPLC CHROMATOGRAM OF ROSAVIN (CDXP-18-00752)



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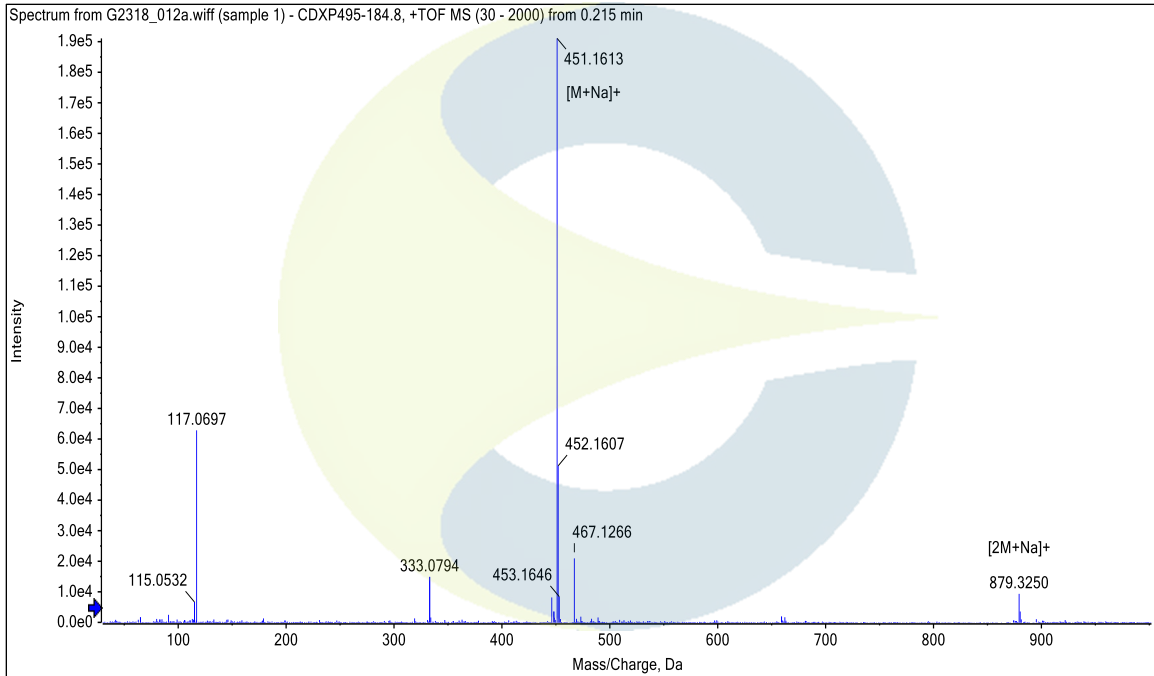
Certificate of Analysis

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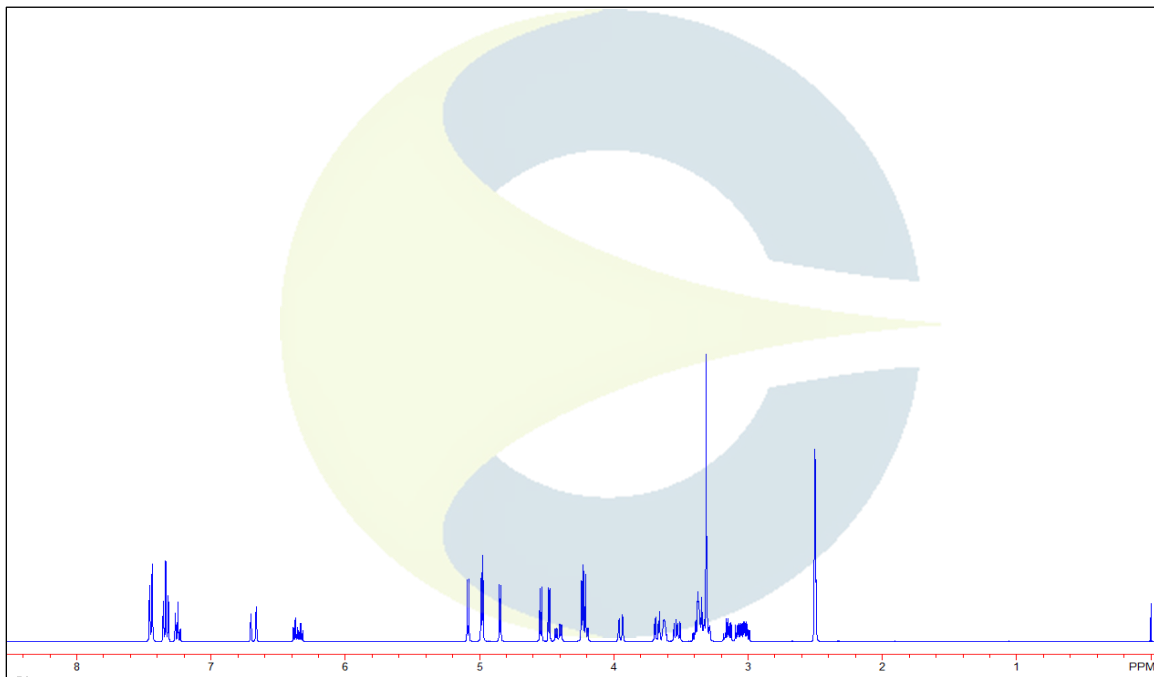
UV SPECTRUM AT RT = 12.3 MINUTES**HPLC CHROMATOGRAM OF DILUENT BLANK**

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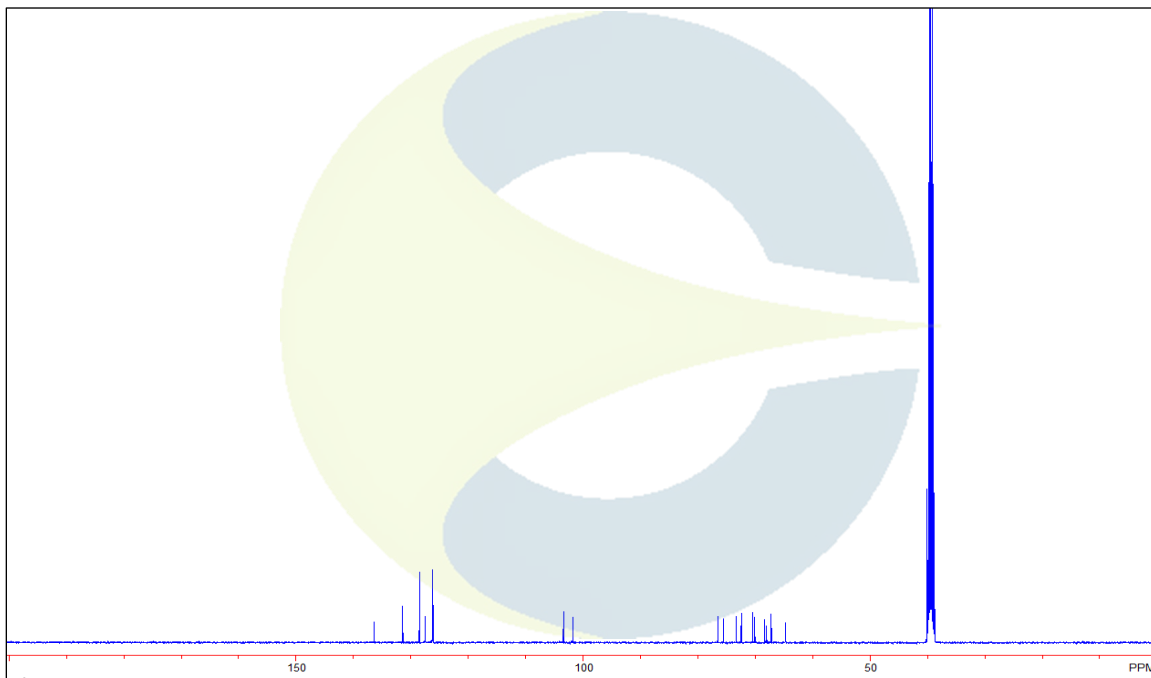
MASS SPECTRUM OF ROSAVIN (CDXP-18-00752)



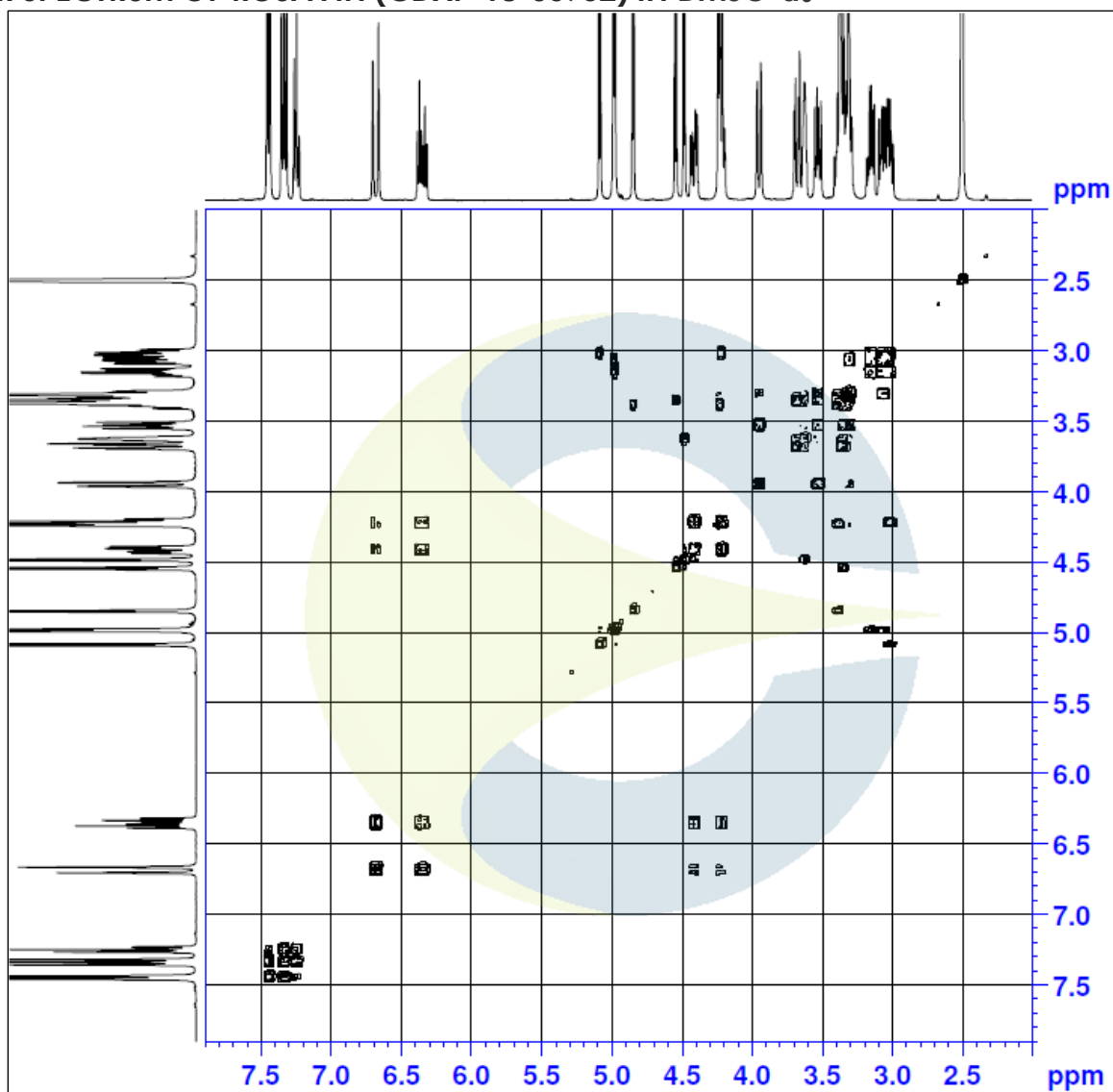
¹H-NMR SPECTRUM OF ROSAVIN (CDXP-18-00752) IN DMSO-d₆



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^{13}C -NMR SPECTRUM OF ROSAVIN (CDXP-18-00752) IN $\text{DMSO-}d_6$ 

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COSY-NMR SPECTRUM OF ROSAVIN (CDXP-18-00752) IN DMSO- d_6

REVISION HISTORY

| <u>Revision History</u> | <u>Date of Revision</u> | <u>Document/Changes</u> |
|-------------------------|-------------------------|---|
| 00 | 08/10/2018 | New report |
| 01 | 07/11/2022 | Passed re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, chromatograms, results, and appearance. Added EINECS number and revised chemical family |

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