Horizon Analytical

# Certificate of Analysis

Lot Number: VRL-2431473
Brand / Distributed by: Value Research Labs
Identity: www.valueresearchlabs.com

Analysis Date: 08/06/2026
Searchable via: horizonanalytical.com

| | |
|---|---|
| Compound: | L-Carnitine |
| Report Number: | 1022135 |
| Appearance: | Blue Lyophilized Powder |

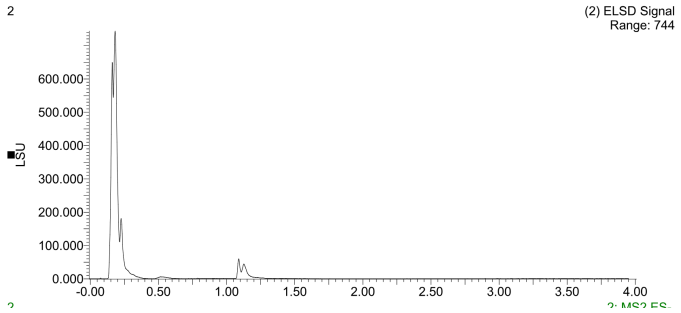
| | |
|---|---|
| CAS: | 541-15-1 |
| Formula: | $C_7H_{15}NO_3$ |
| Mol Weight: | 161.20 g/mol |

Pubchem CID: 10917

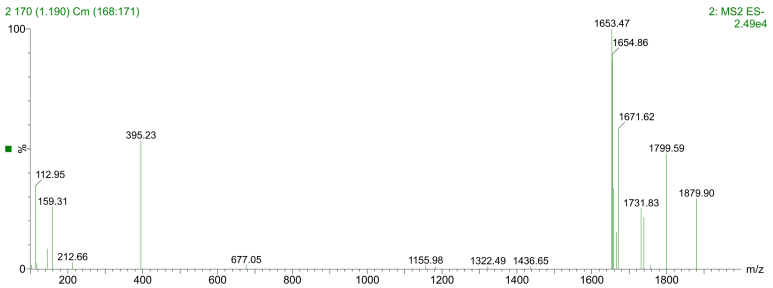
Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

| | Specification | Result | Scan to Validate: |
|---|---|---|---|
| Compound Test: | L-Carnitine | L-Carnitine | |
| Quantity: | 40mg | 39.85mg | |
| Purity: | ≥98% | 99.25% | |

UPLC




MS




Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

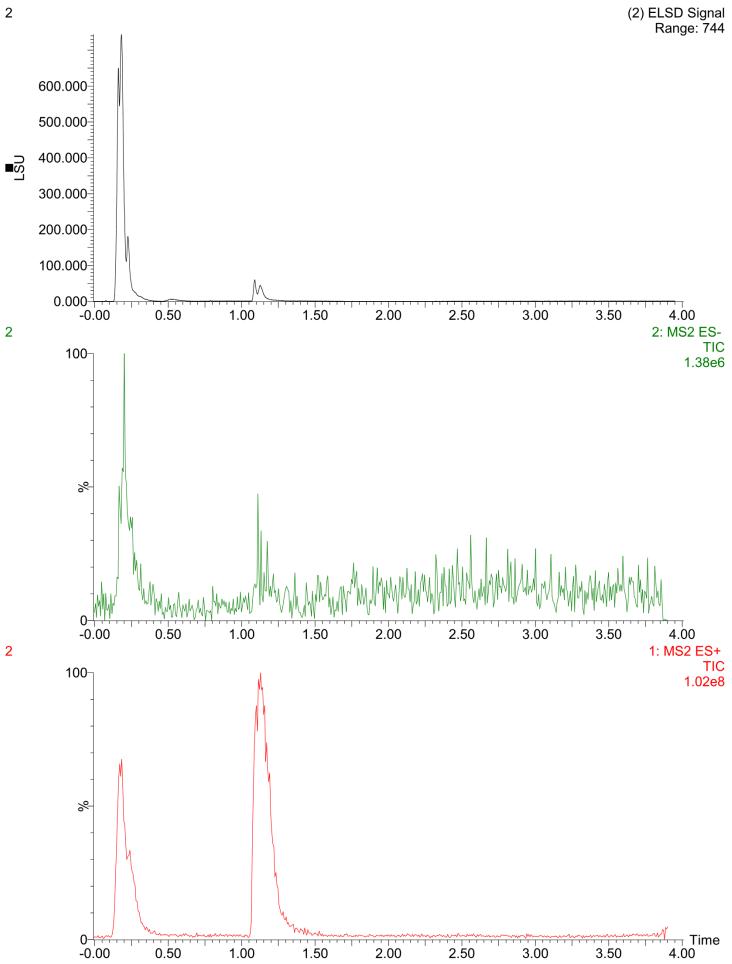
Horizon Analytical

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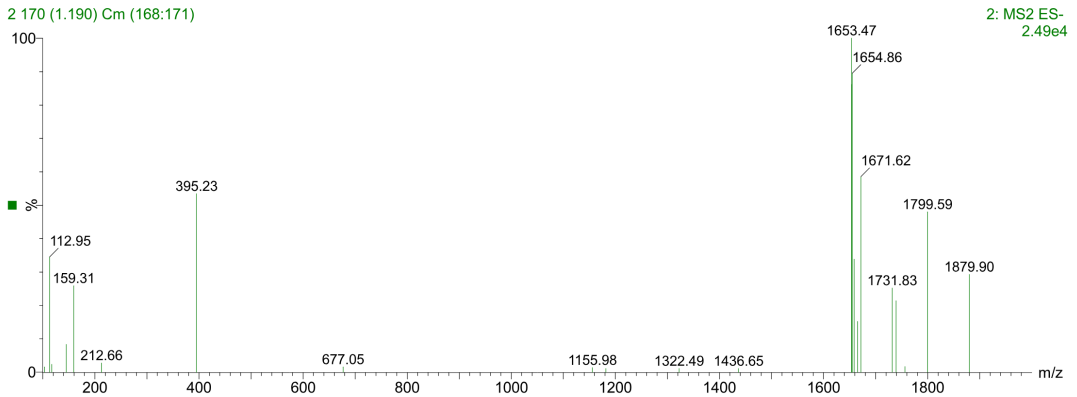
Lot Number: VRL-2431473
Brand / Distributed by: Value Research Labs
Identity: www.valueresearchlabs.com

Analysis Date: 08/06/2026
Searchable via: horizonanalytical.com

L-Carnitine (40mg) • Pubchem CID: 10917
Ultra High Performance Liquid Chromatography (UPLC)




Mass Spectrometry (MS)



Horizon Analytical

# Certificate of Analysis

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Brand / Distributed by: Value Research Labs
Identity: www.valueresearchlabs.com

Analysis Date: 08/06/2026
Searchable via: horizonanalytical.com

| | |
|---|---|
| Compound: | L-Methionine |
| Report Number: | 1022135 |
| Appearance: | Blue Lyophilized Powder |

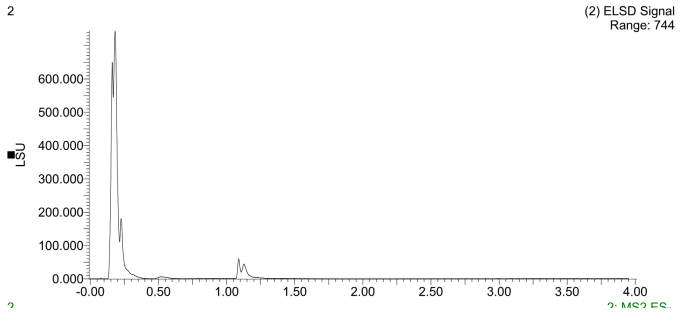
| | |
|---|---|
| CAS: | 63-68-3 |
| Formula: | $C_5H_{11}NO_2S$ |
| Mol Weight: | 149.21 g/mol |

Pubchem CID: 6137

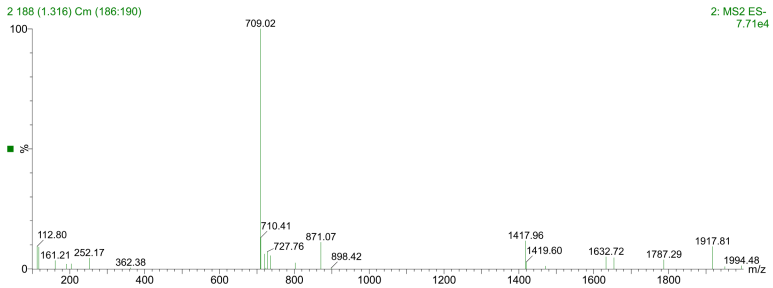
Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

| | Specification | Result | Scan to Validate: |
|---|---|---|---|
| Compound Test: | L-Methionine | L-Methionine | |
| Quantity: | 15mg | 14.85mg | |
| Purity: | ≥98% | 99.16% | |

UPLC




MS




Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

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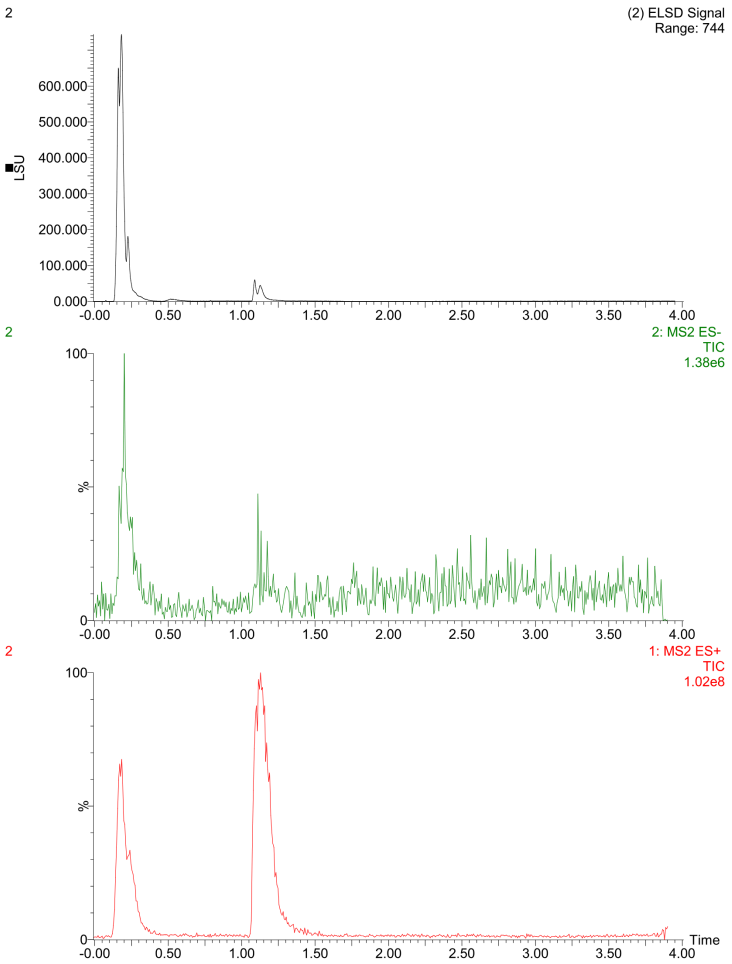
Horizon Analytical

# Certificate of Analysis

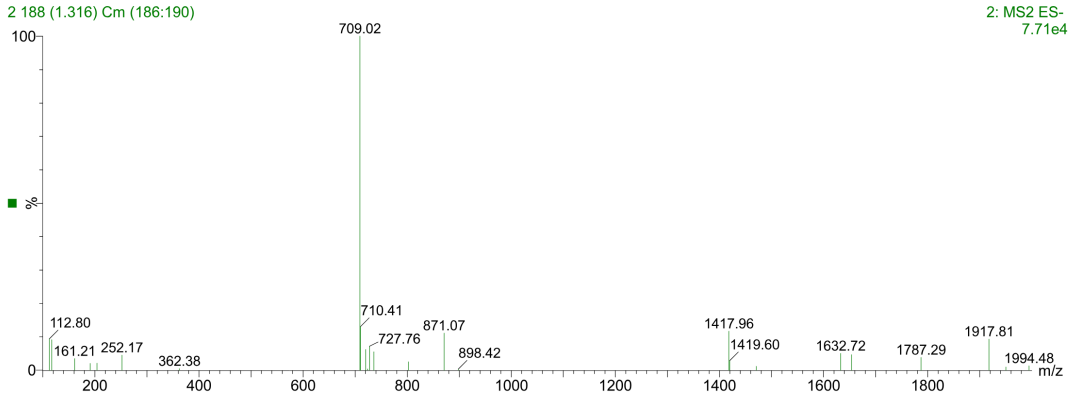
Lot Number: VRL-2431473
Brand / Distributed by: Value Research Labs
Identity: www.valueresearchlabs.com

Analysis Date: 08/06/2026
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L-Methionine (15mg) • Pubchem CID: 6137
Ultra High Performance Liquid Chromatography (UPLC)




Mass Spectrometry (MS)



Horizon Analytical

# Certificate of Analysis

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Brand / Distributed by: Value Research Labs
Identity: www.valueresearchlabs.com

Analysis Date: 08/06/2026
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| | |
|---|---|
| Compound: | Choline chloride |
| Report Number: | 1022135 |
| Appearance: | White Lyophilized Powder |

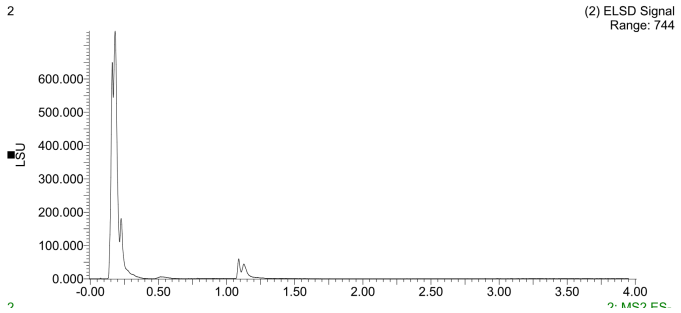
| | |
|---|---|
| CAS: | 67-48-1 |
| Formula: | $C_5H_{14}ClNO$ |
| Mol Weight: | 139.62 g/mol |

Pubchem CID: 6209

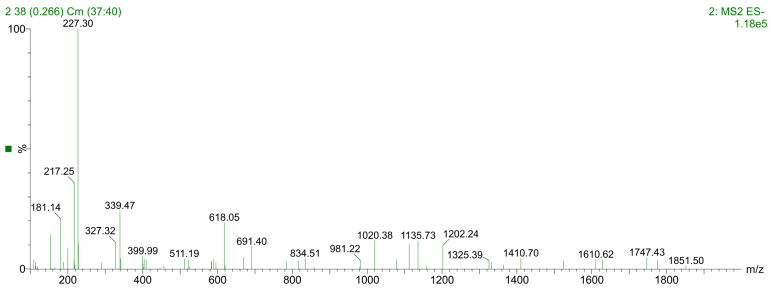
Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

| | Specification | Result | Scan to Validate: |
|---|---|---|---|
| Compound Test: | Choline chloride | Choline chloride | |
| Quantity: | 40mg | 40.8mg | |
| Purity: | ≥98% | 99.56% | |

UPLC




MS




Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

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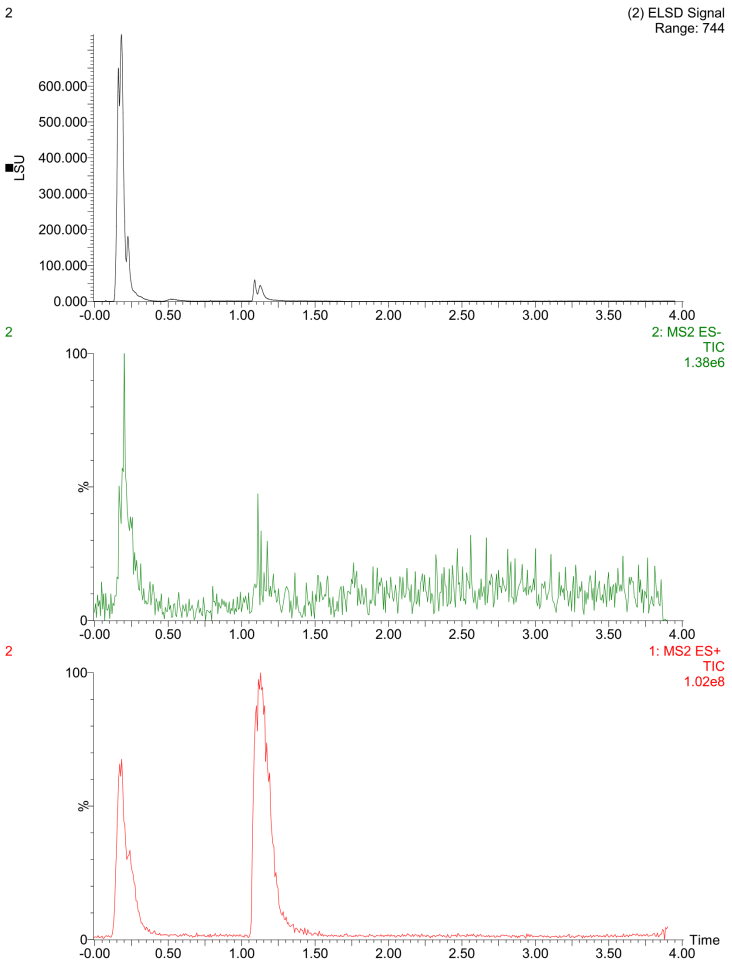
Horizon Analytical

# Certificate of Analysis

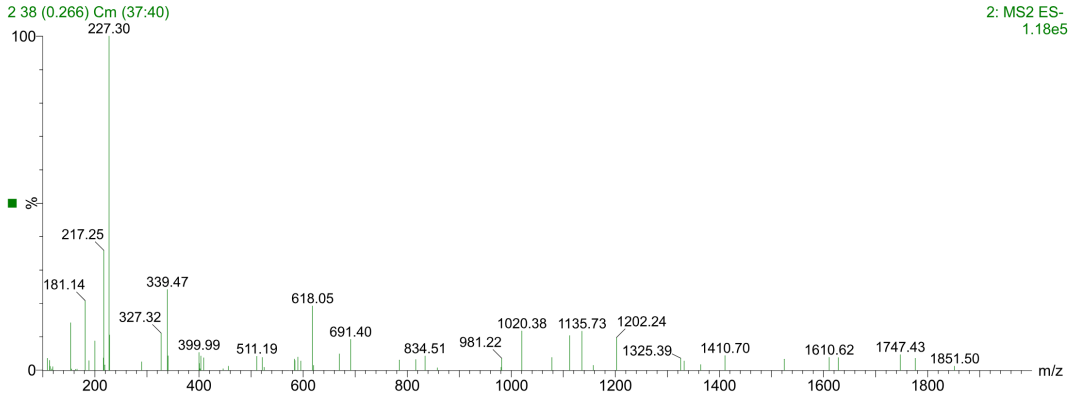
Lot Number: VRL-2431473
Brand / Distributed by: Value Research Labs
Identity: www.valueresearchlabs.com

Analysis Date: 08/06/2026
Searchable via: horizonanalytical.com

Choline chloride (40mg) • Pubchem CID: 6209
Ultra High Performance Liquid Chromatography (UPLC)




Mass Spectrometry (MS)



Horizon Analytical

# Certificate of Analysis

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Brand / Distributed by: Value Research Labs
Identity: www.valueresearchlabs.com

Analysis Date: 08/06/2026
Searchable via: horizonanalytical.com

| | |
|---|---|
| Compound: | Dexpanthenol |
| Report Number: | 1022135 |
| Appearance: | White Lyophilized Powder |

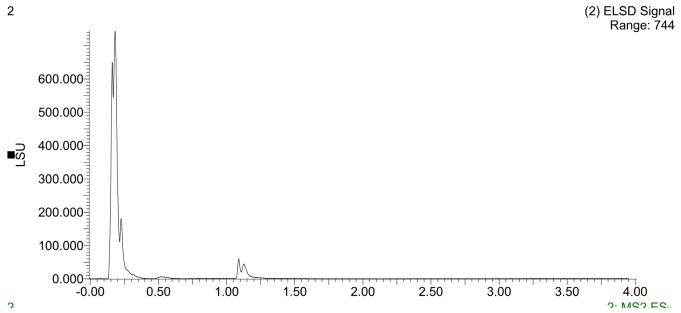
| | |
|---|---|
| CAS: | 81-13-0 |
| Formula: | $C_9H_{19}NO_4$ |
| Mol Weight: | 205.25 g/mol |

Pubchem CID: 131204

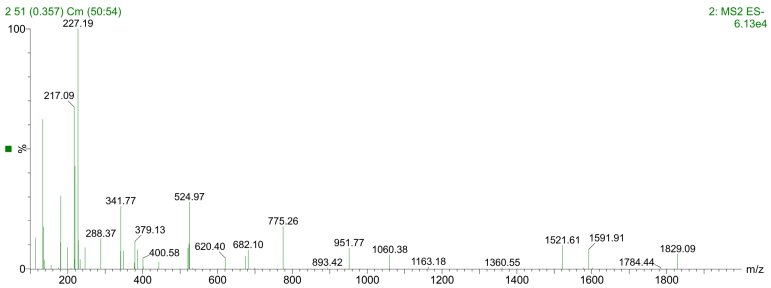
Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

| | Specification | Result | Scan to Validate: |
|---|---|---|---|
| Compound Test: | Dexpanthenol | Dexpanthenol | |
| Quantity: | 5mg | 4.85mg | |
| Purity: | ≥98% | 99.21% | |

UPLC




MS




**Aleksey Yevtodiyenko PhD**
Research and Formulation Chemist

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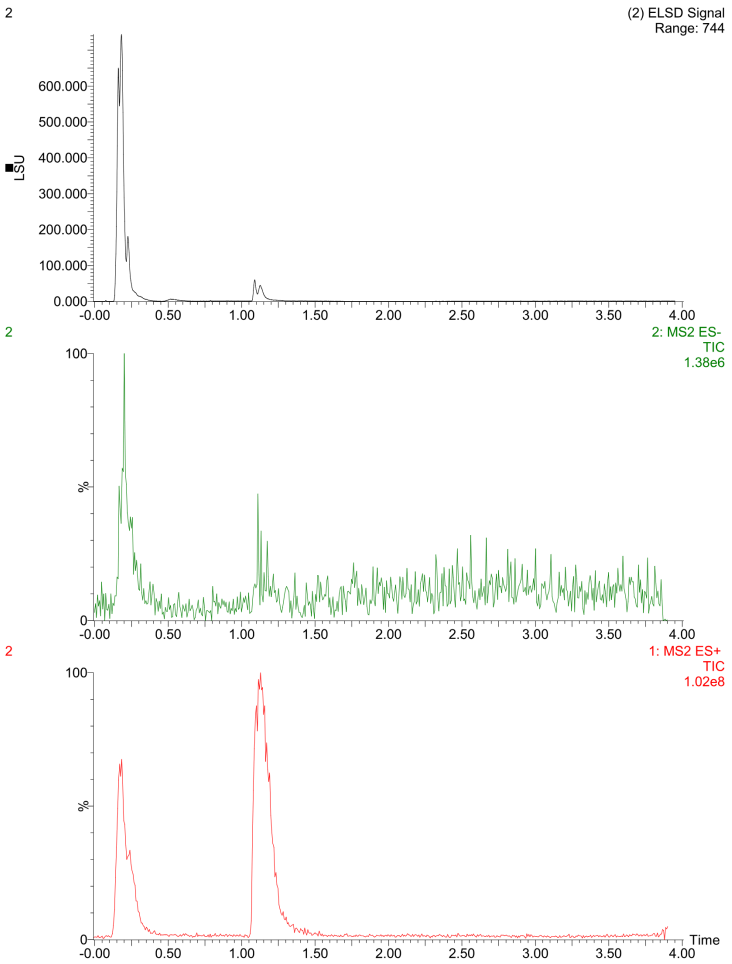
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Analysis Date: 08/06/2026
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Dexpanthenol (5mg) • Pubchem CID: 131204
Ultra High Performance Liquid Chromatography (UPLC)




Mass Spectrometry (MS)

