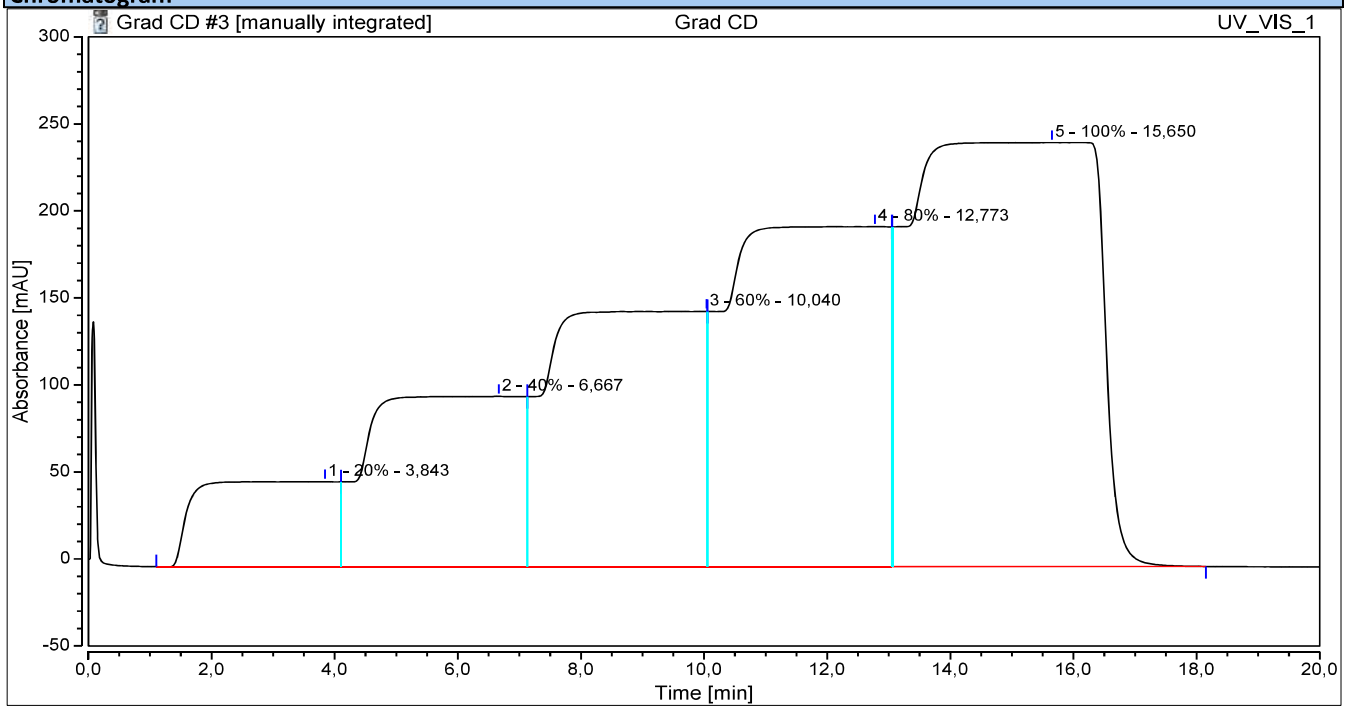
# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **Grad CD** | *Run Time (min):* | **20,00** |
| *Vial Number:* | **BA1** | *Injection Volume:* | **0,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Grad CD** | *Bandwidth:* | **3** |
| *Processing Method:* | **Gradiente** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 11:29** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | 20% | 3,843 | 123,1277 | 48,857 | 5,61 | 6,67 | n.a. |
| 2 | 40% | 6,667 | 272,9295 | 97,866 | 12,43 | 13,36 | n.a. |
| 3 | 60% | 10,040 | 407,1155 | 146,652 | 18,54 | 20,02 | n.a. |
| 4 | 80% | 12,773 | 561,0621 | 195,349 | 25,55 | 26,67 | n.a. |
| 5 | 100% | 15,650 | 831,6159 | 243,636 | 37,87 | 33,27 | n.a. |
| **Total:** | | | **2195,851** | **732,360** | **100,000** | **100,000** | |

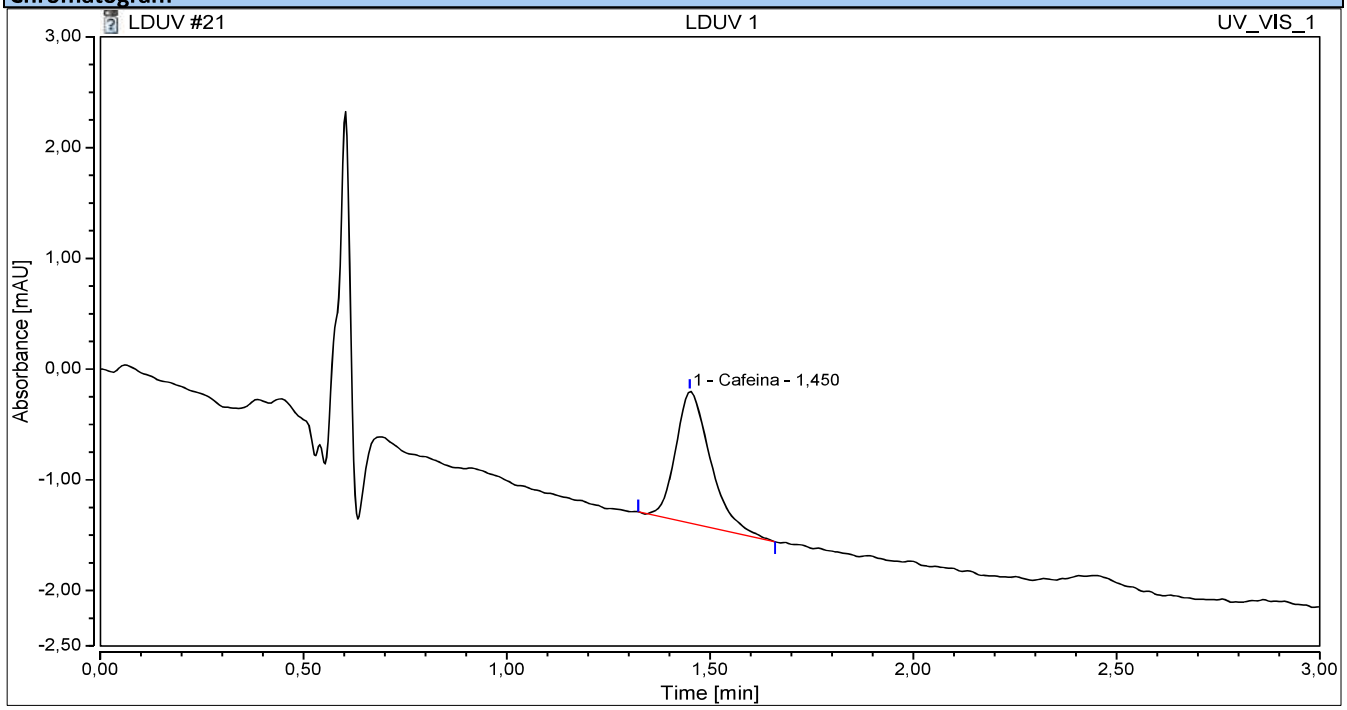
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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LDUV 1** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **10/set/25 12:23** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,450 | 0,1183 | 1,189 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **0,118** | **1,189** | **100,000** | **100,000** | |

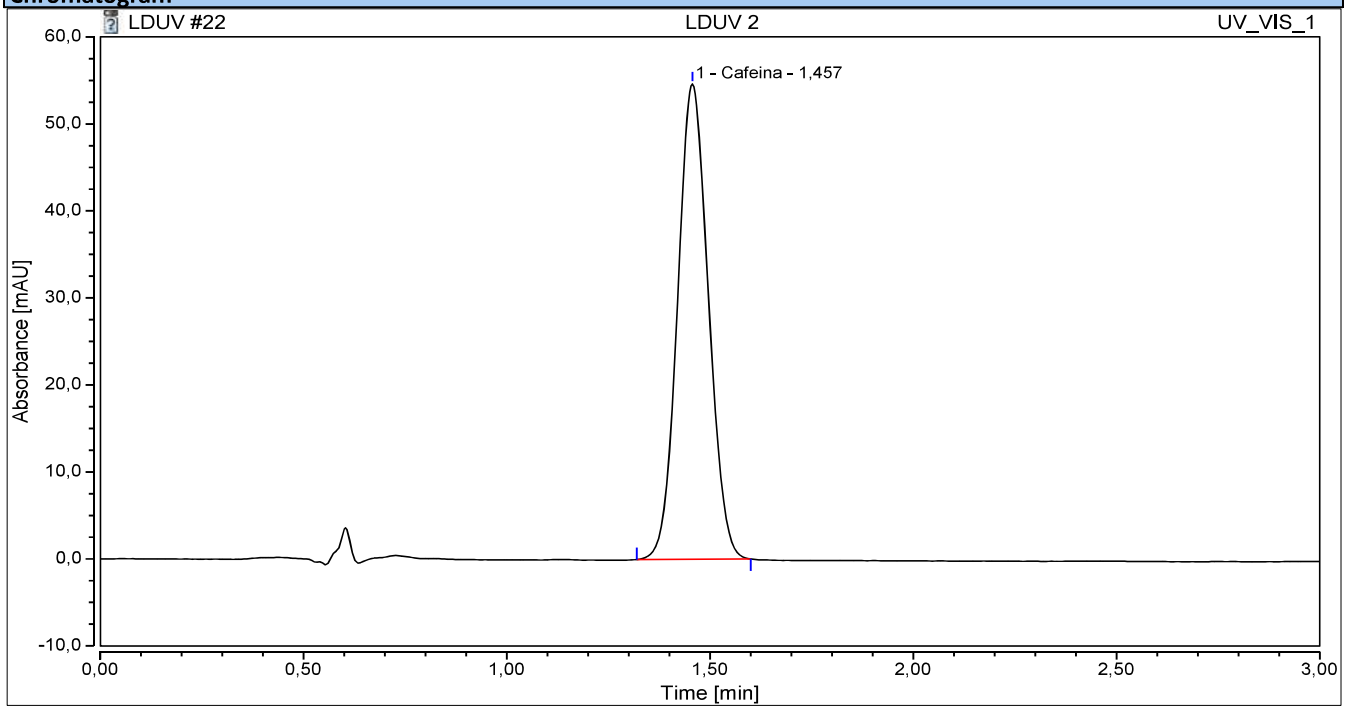

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LDUV 2** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA2** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **10/set/25 12:27** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,457 | 4,7849 | 54,629 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **4,785** | **54,629** | **100,000** | **100,000** | |

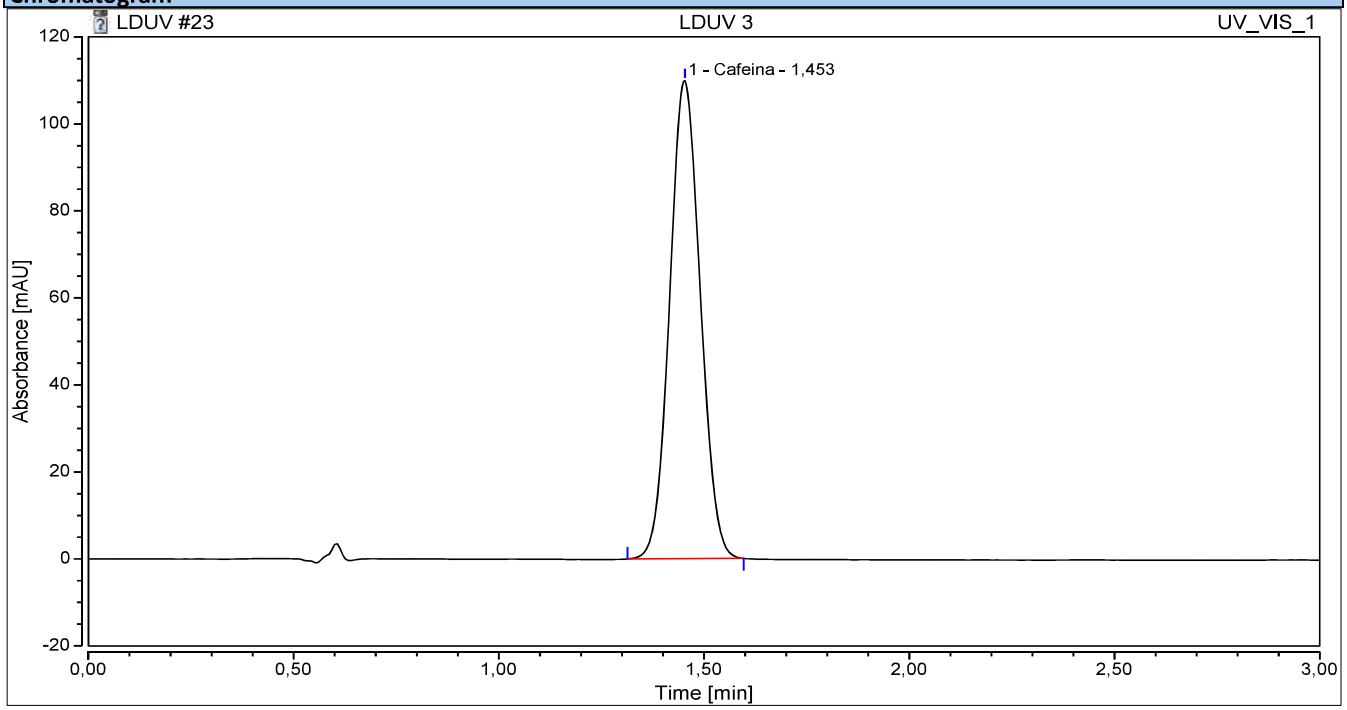

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LDUV 3** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA3** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **10/set/25 12:30** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,453 | 9,4860 | 109,875 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **9,486** | **109,875** | **100,000** | **100,000** | |

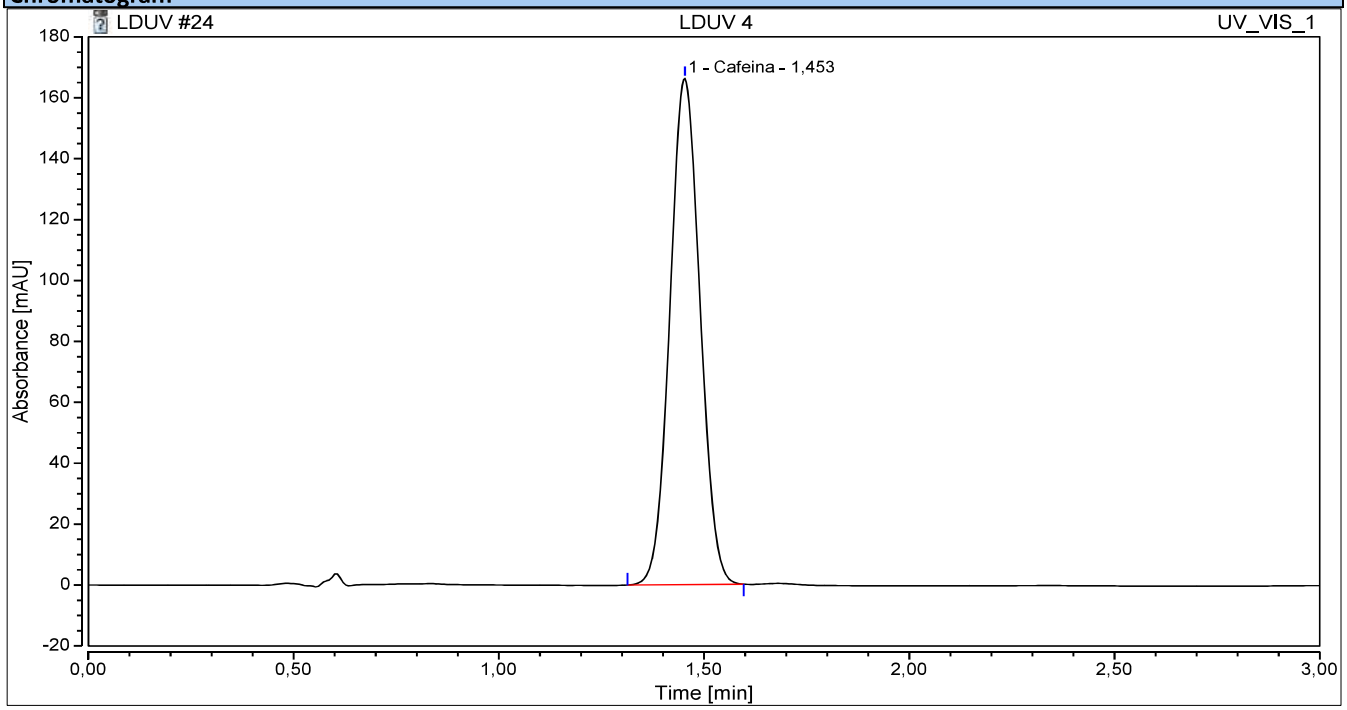

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LDUV 4** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA4** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **10/set/25 12:34** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,453 | 14,0894 | 166,254 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **14,089** | **166,254** | **100,000** | **100,000** | |

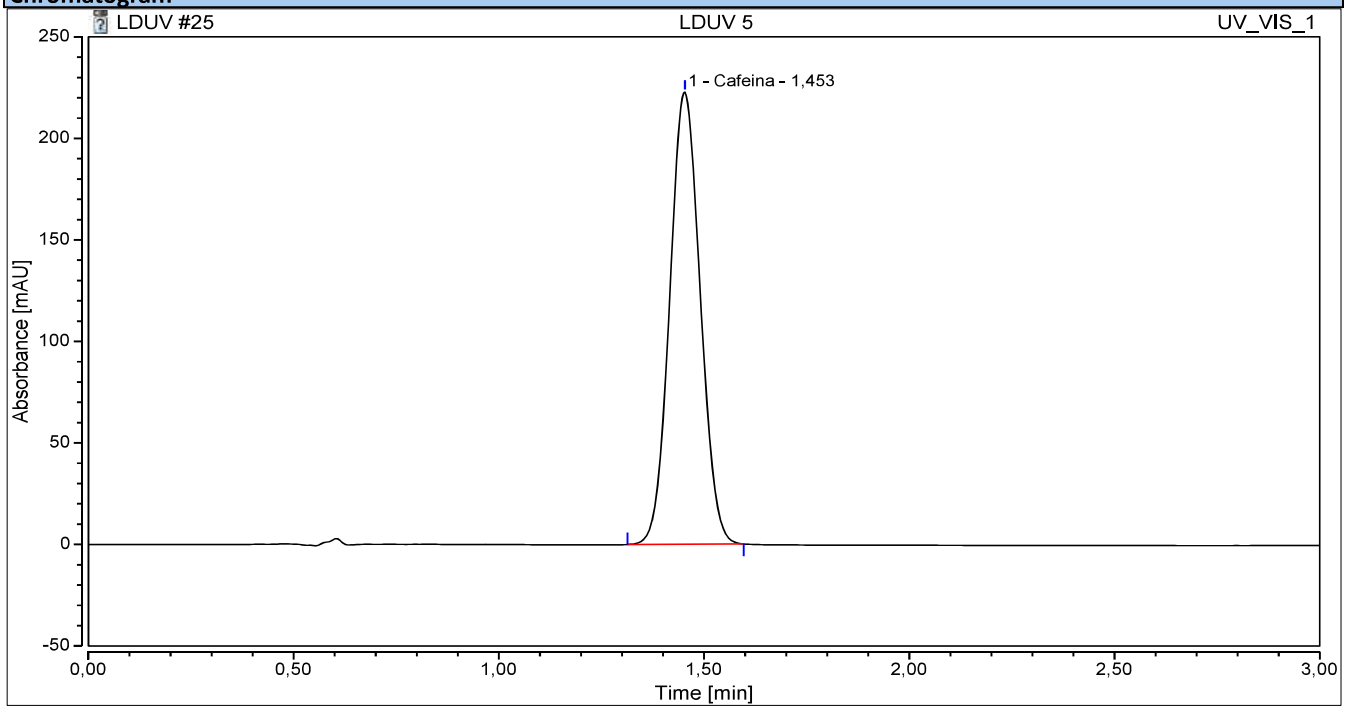
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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LDUV 5** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA5** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **10/set/25 12:38** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,453 | 19,1025 | 222,713 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **19,102** | **222,713** | **100,000** | **100,000** | |

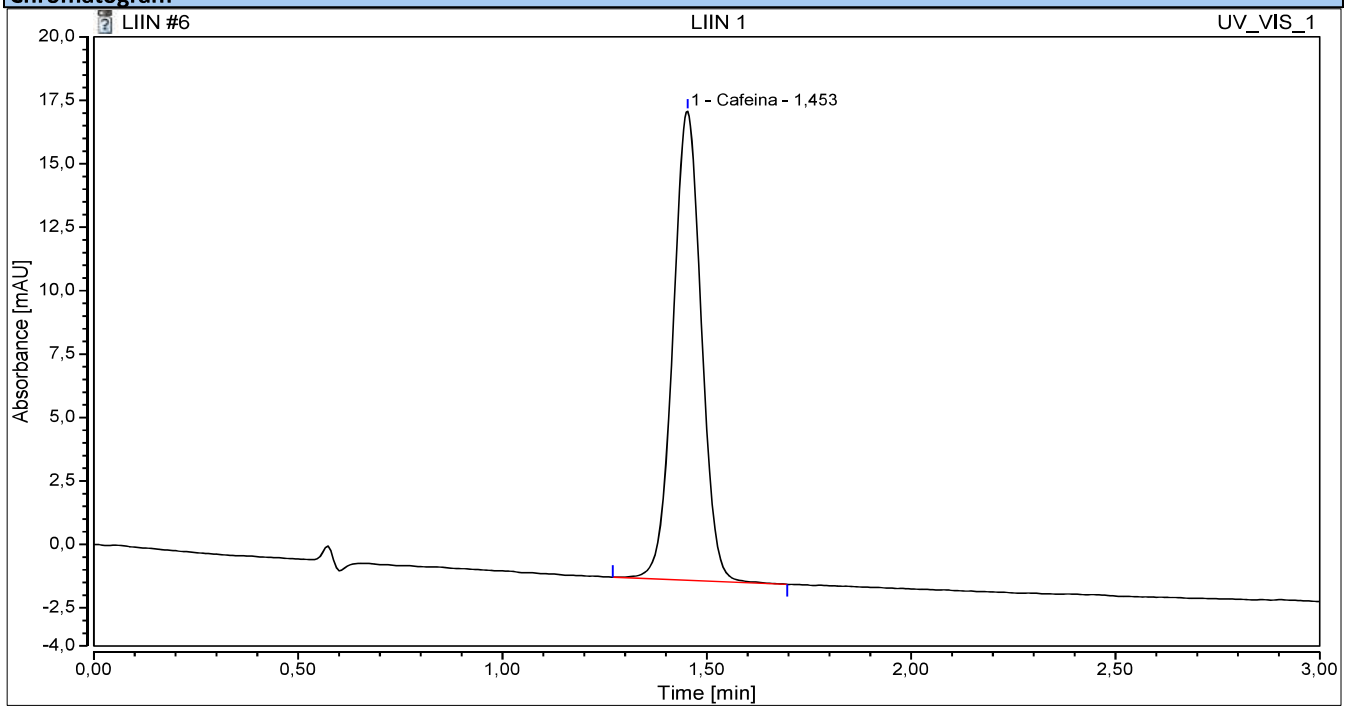

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LIIN 1** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **1,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 13:05** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,453 | 1,4808 | 18,482 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **1,481** | **18,482** | **100,000** | **100,000** | |

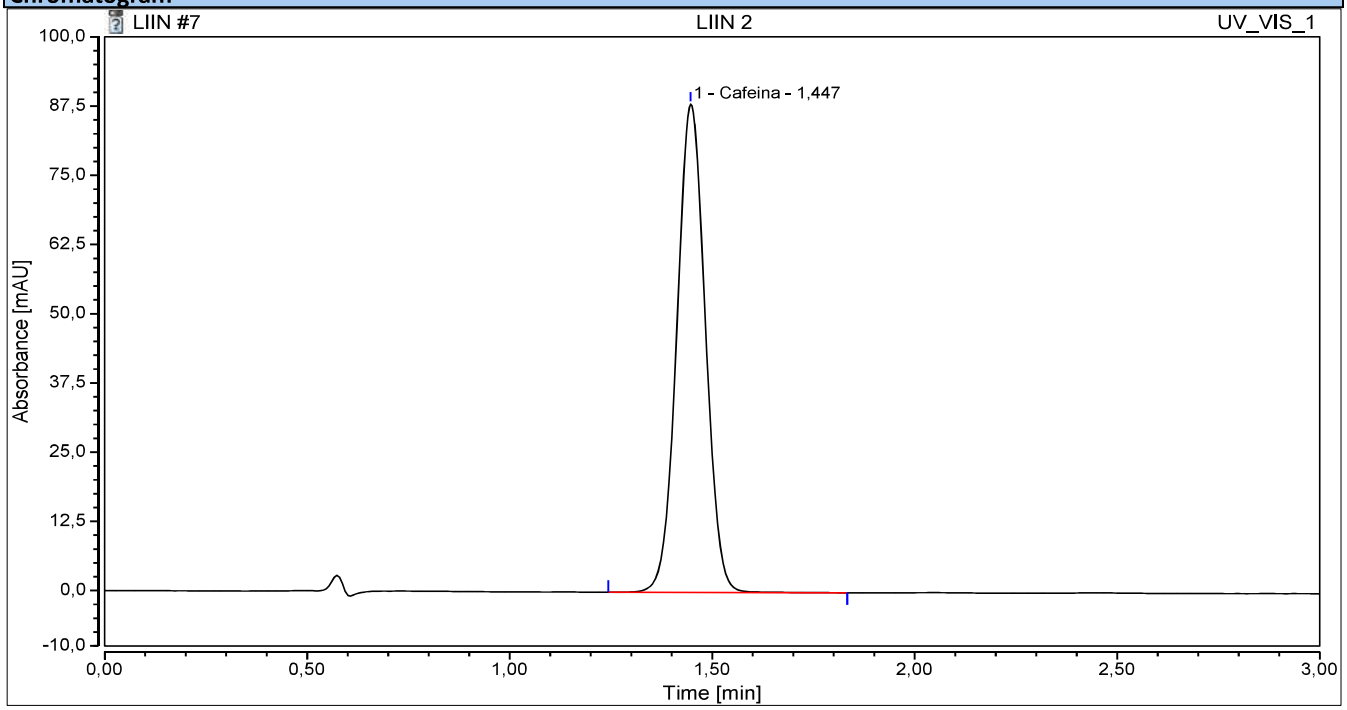

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LIIN 2** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **5,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 13:09** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,447 | 7,1733 | 88,195 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **7,173** | **88,195** | **100,000** | **100,000** | |

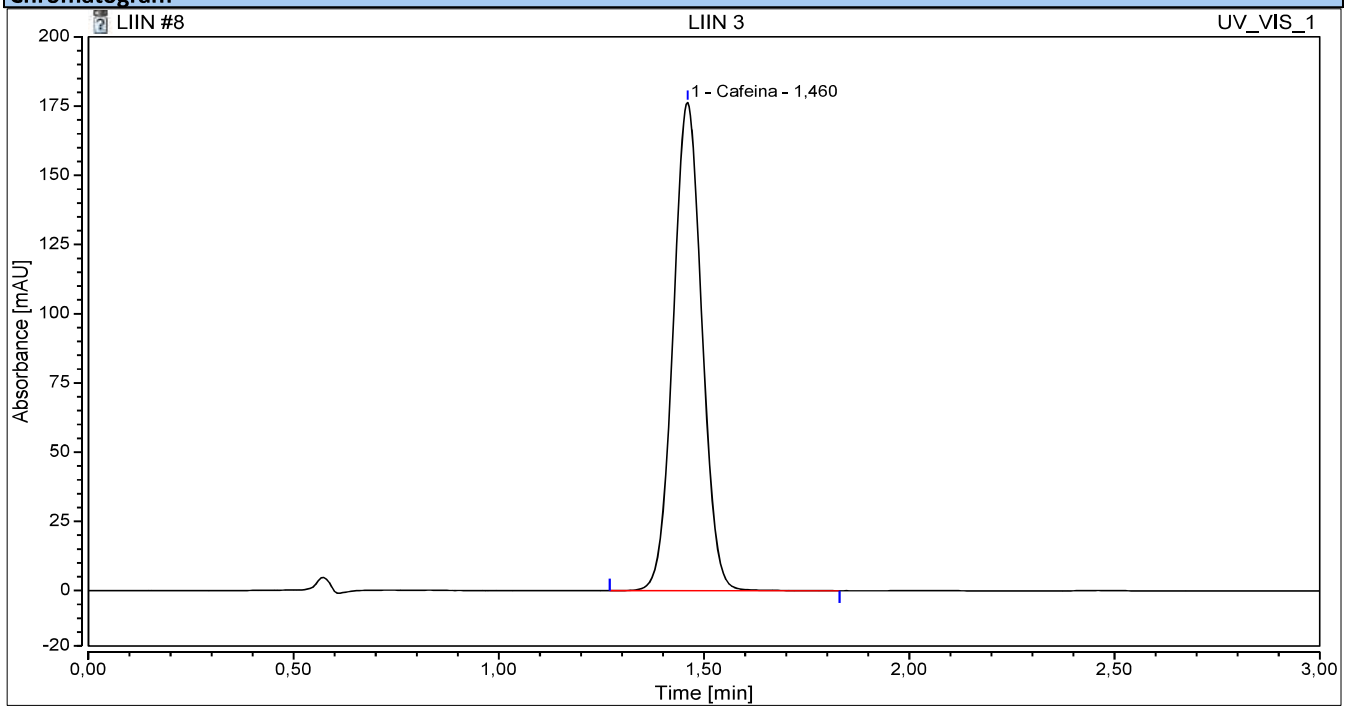

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LIIN 3** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 13:13** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,460 | 14,2370 | 176,351 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **14,237** | **176,351** | **100,000** | **100,000** | |

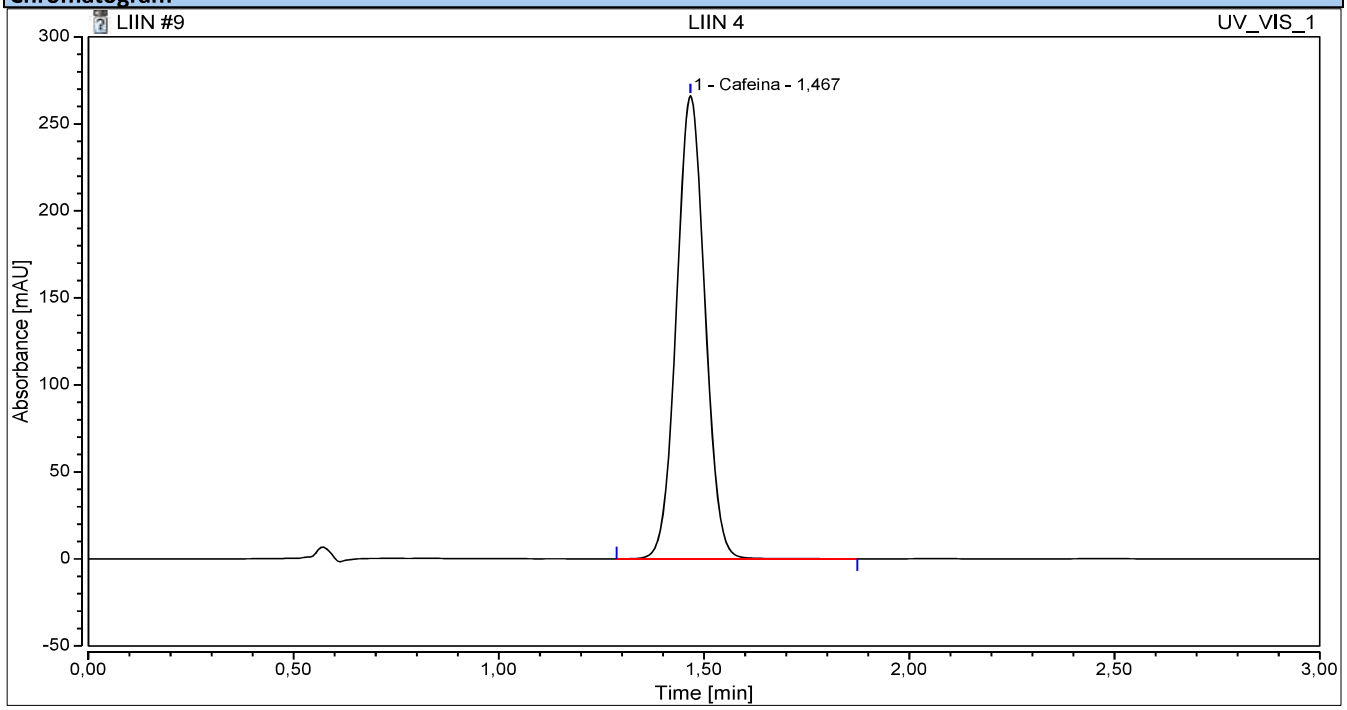
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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LIIN 4** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **15,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 13:16** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,467 | 21,3173 | 266,141 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **21,317** | **266,141** | **100,000** | **100,000** | |

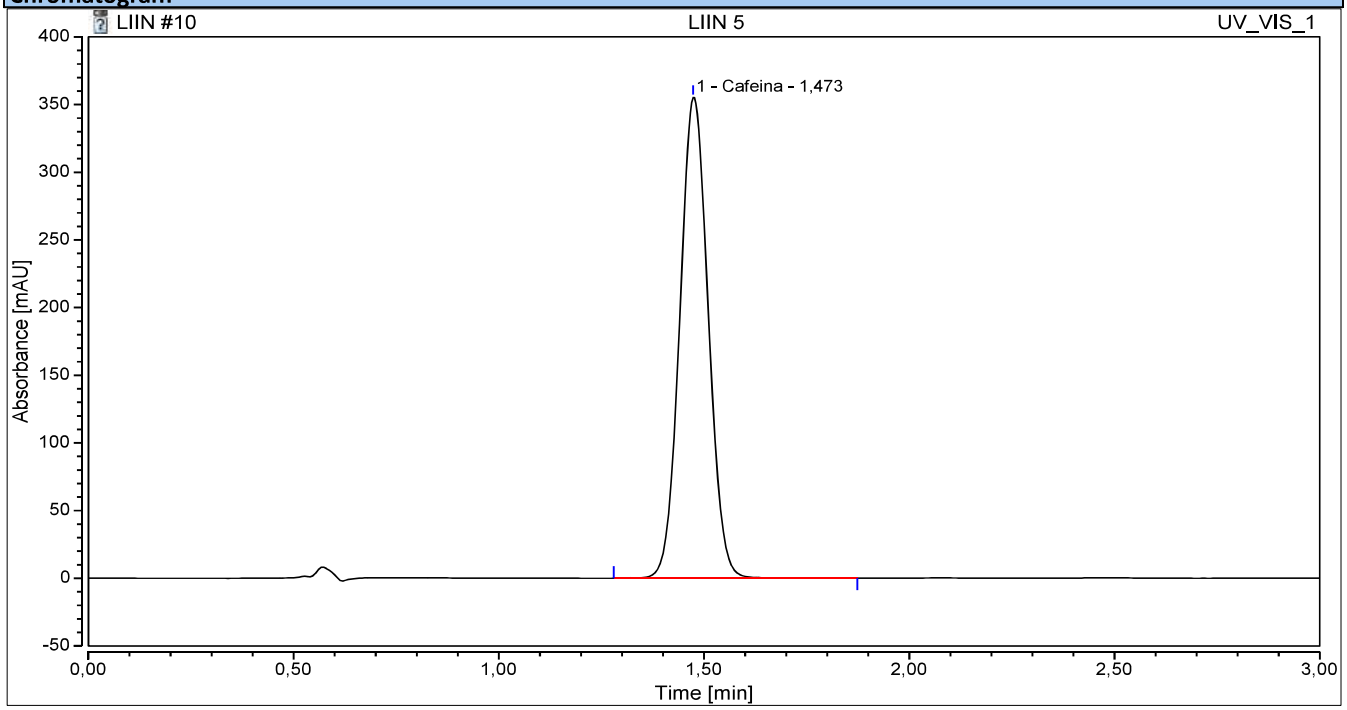

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LIIN 5** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **20,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 13:20** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,473 | 28,4819 | 355,275 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **28,482** | **355,275** | **100,000** | **100,000** | |

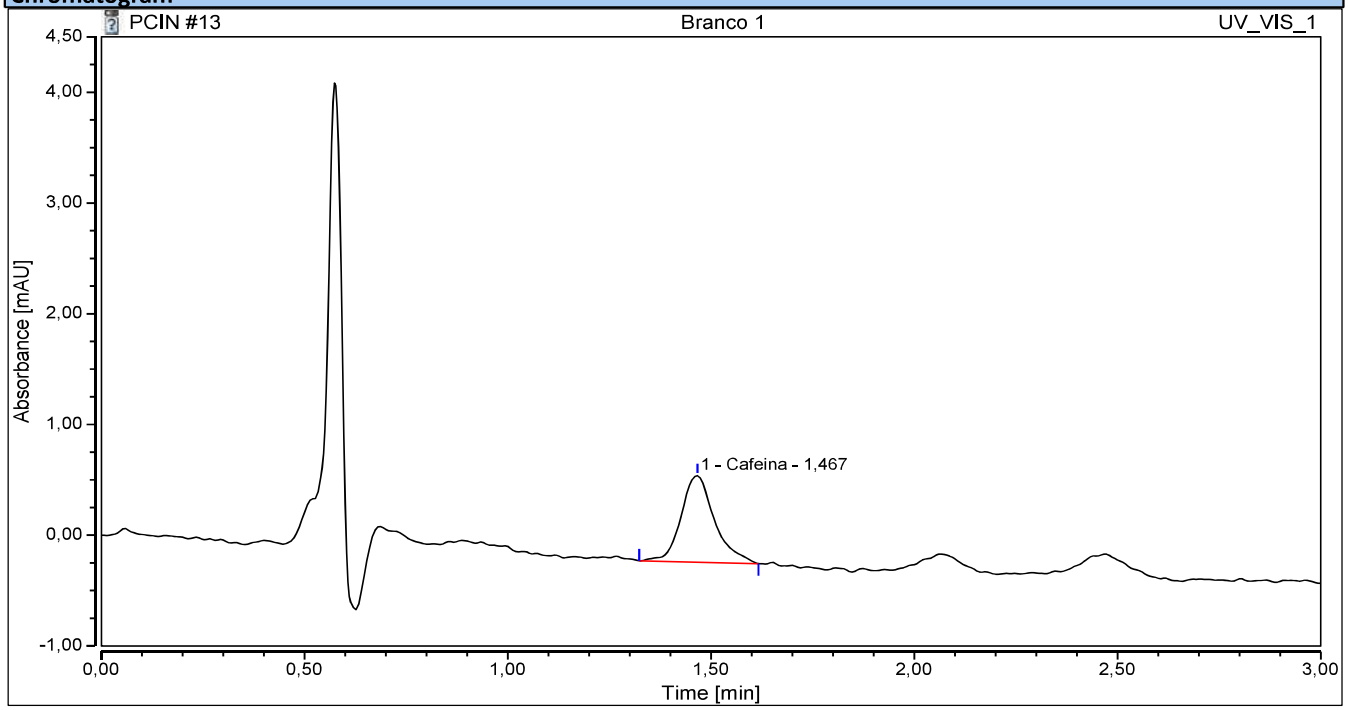

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **Branco 1** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:06** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,467 | 0,0746 | 0,781 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **0,075** | **0,781** | **100,000** | **100,000** | |

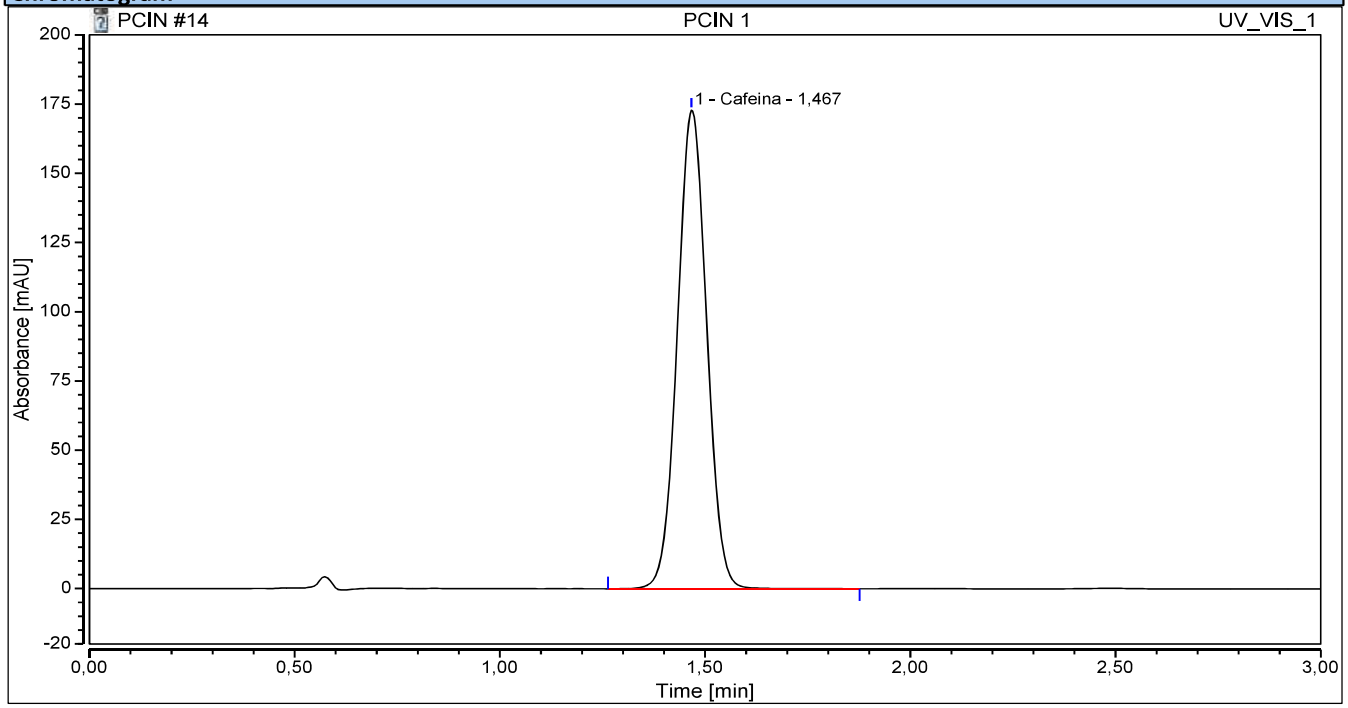

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **PCIN 1** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA2** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:10** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,467 | 14,2926 | 172,886 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **14,293** | **172,886** | **100,000** | **100,000** | |

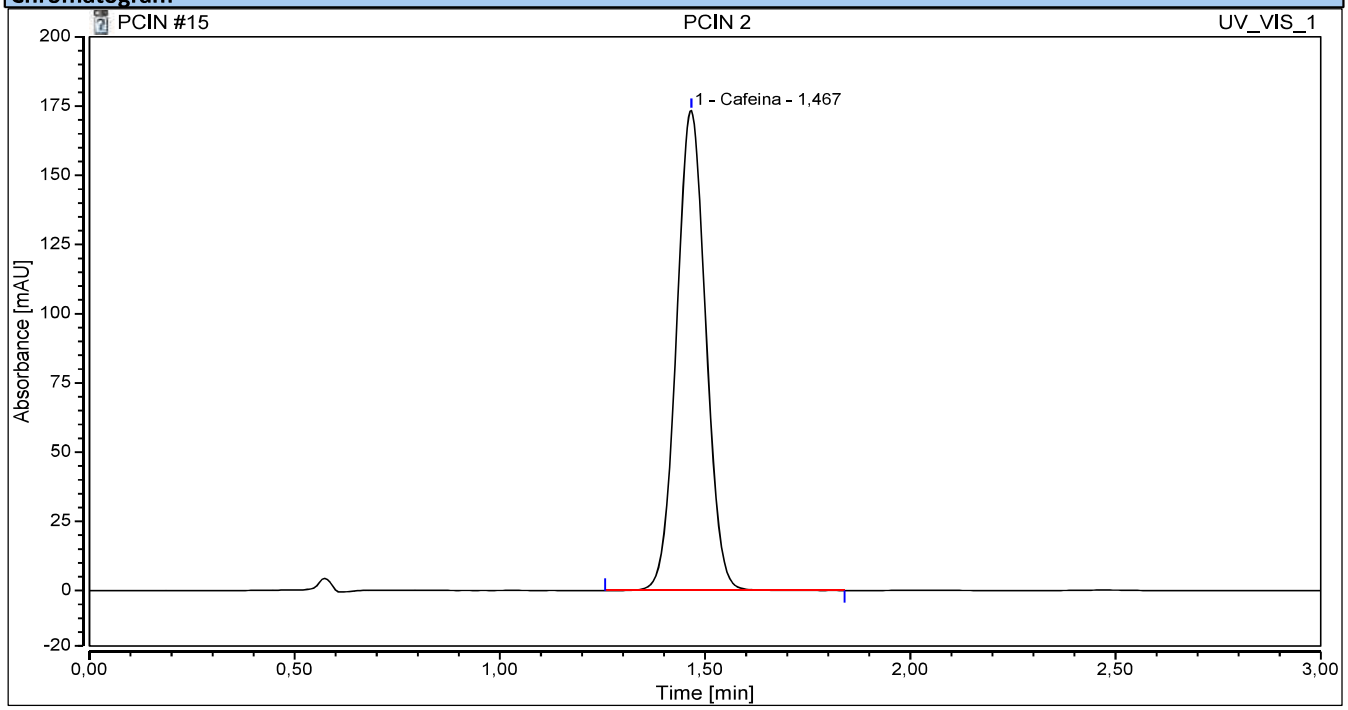

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Chromeleon 7.3.2.11814

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **PCIN 2** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA2** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:13** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,467 | 14,2720 | 173,411 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **14,272** | **173,411** | **100,000** | **100,000** | |

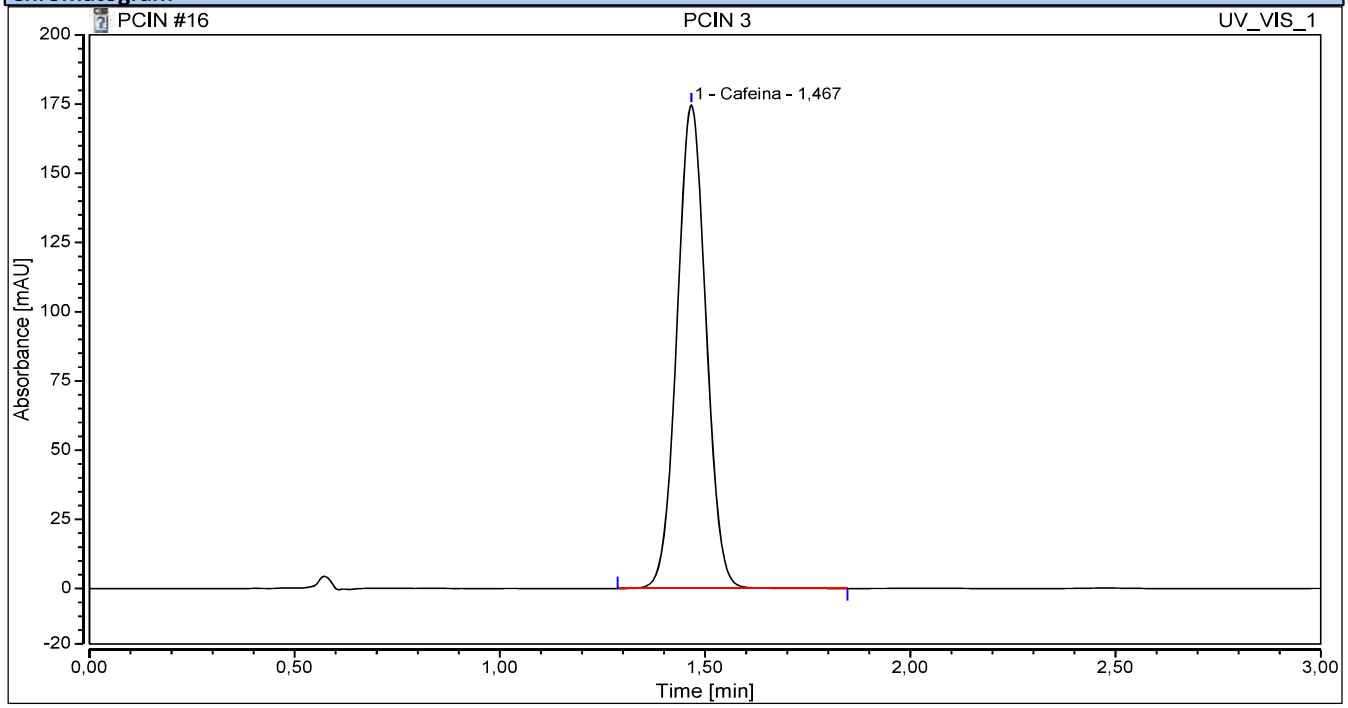
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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **PCIN 3** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA2** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:17** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,467 | 14,2989 | 174,698 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **14,299** | **174,698** | **100,000** | **100,000** | |

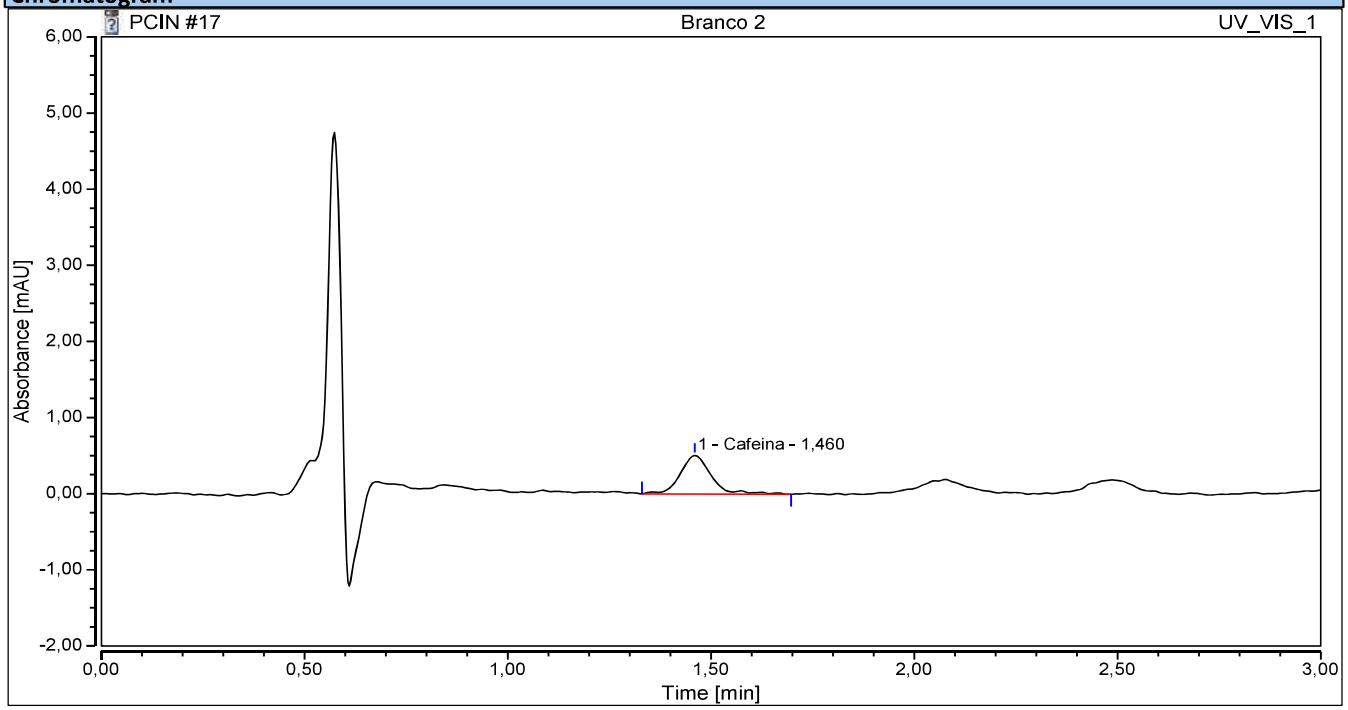
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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **Branco 2** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:21** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,460 | 0,0450 | 0,507 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **0,045** | **0,507** | **100,000** | **100,000** | |

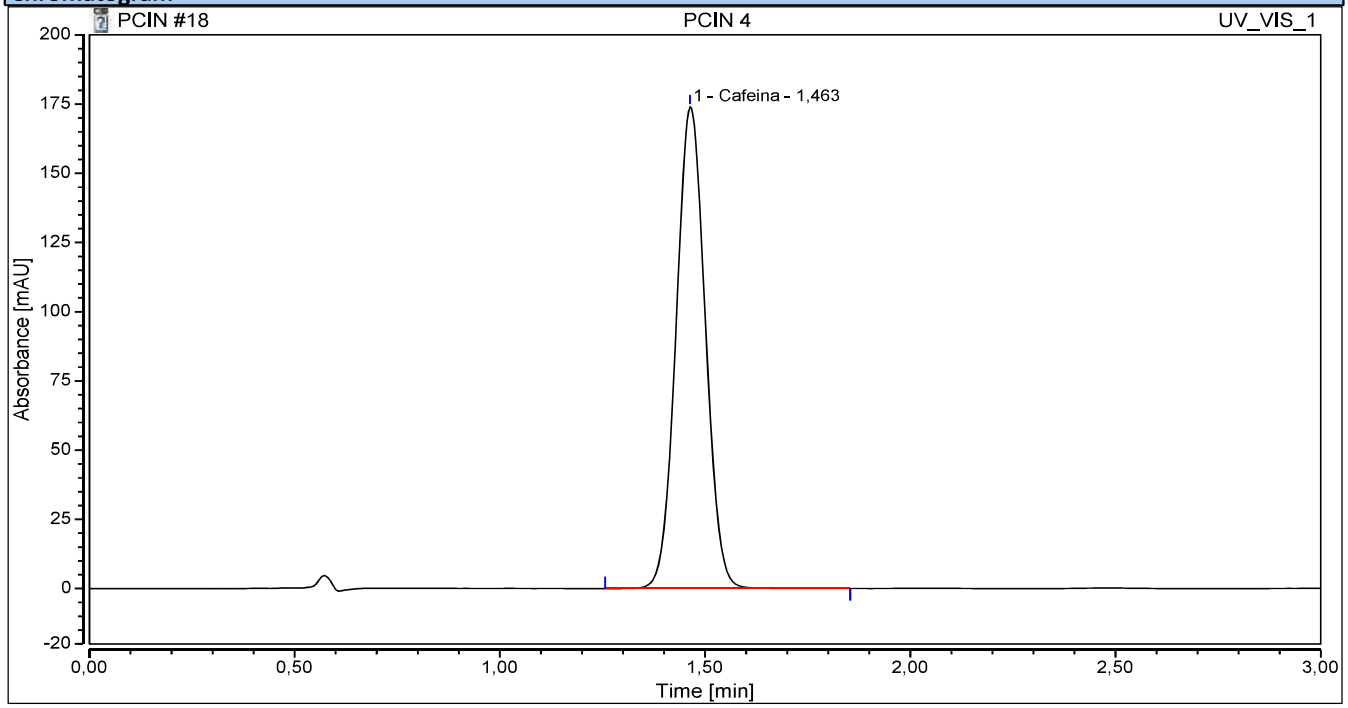

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **PCIN 4** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA2** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:25** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,463 | 14,3227 | 174,014 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **14,323** | **174,014** | **100,000** | **100,000** | |

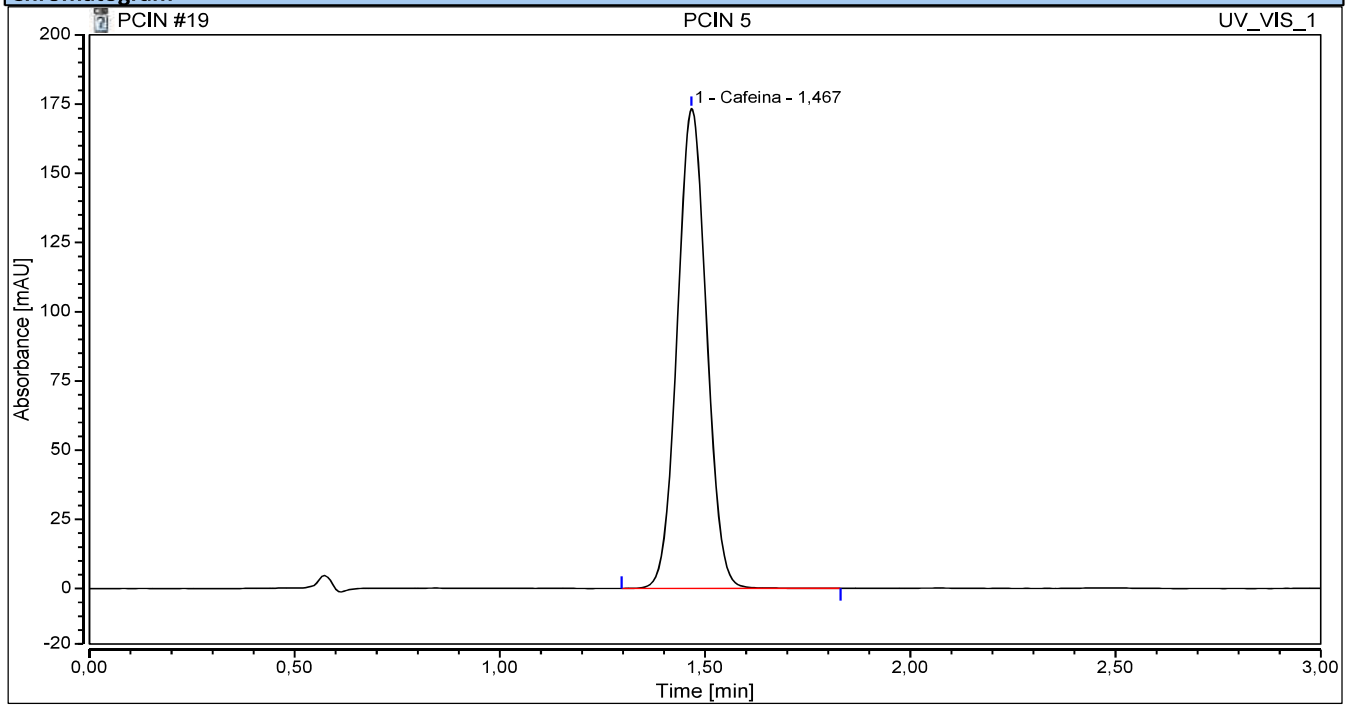
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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **PCIN 5** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA2** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:29** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,467 | 14,2725 | 173,352 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **14,272** | **173,352** | **100,000** | **100,000** | |

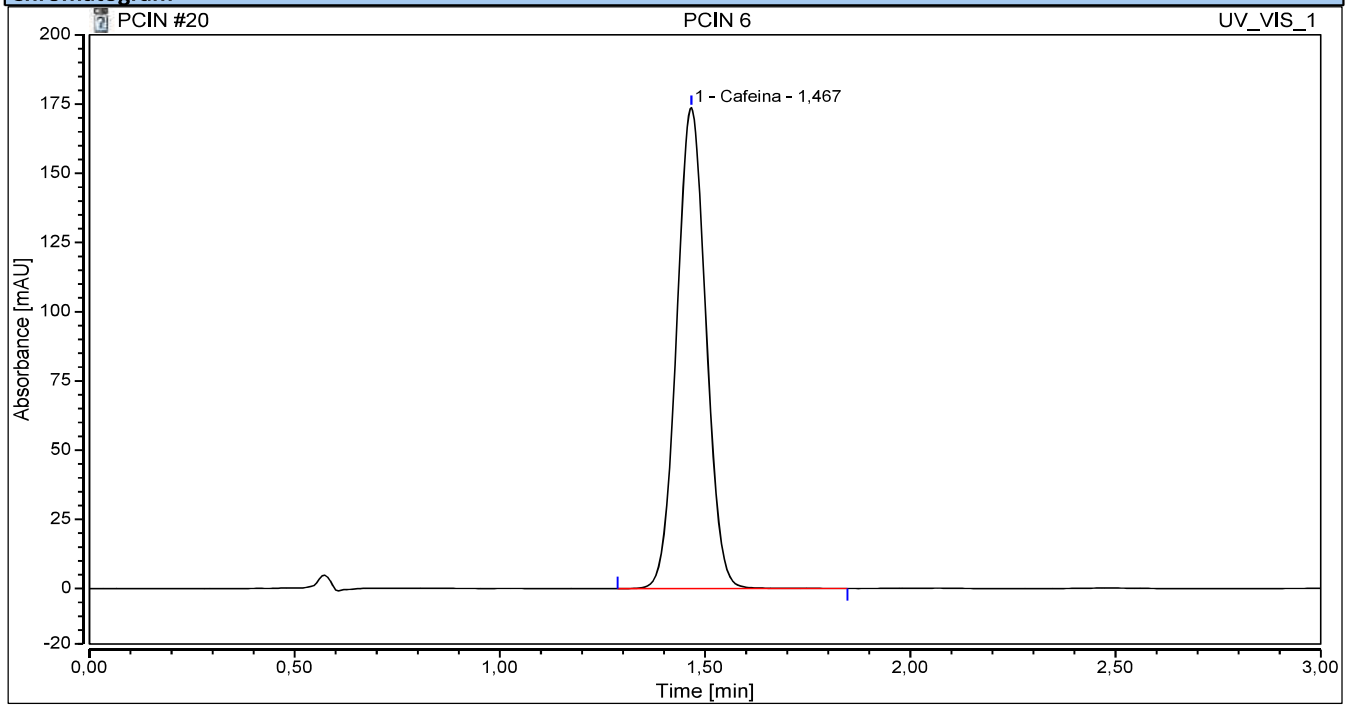
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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **PCIN 6** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA2** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:33** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,467 | 14,2871 | 173,735 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **14,287** | **173,735** | **100,000** | **100,000** | |

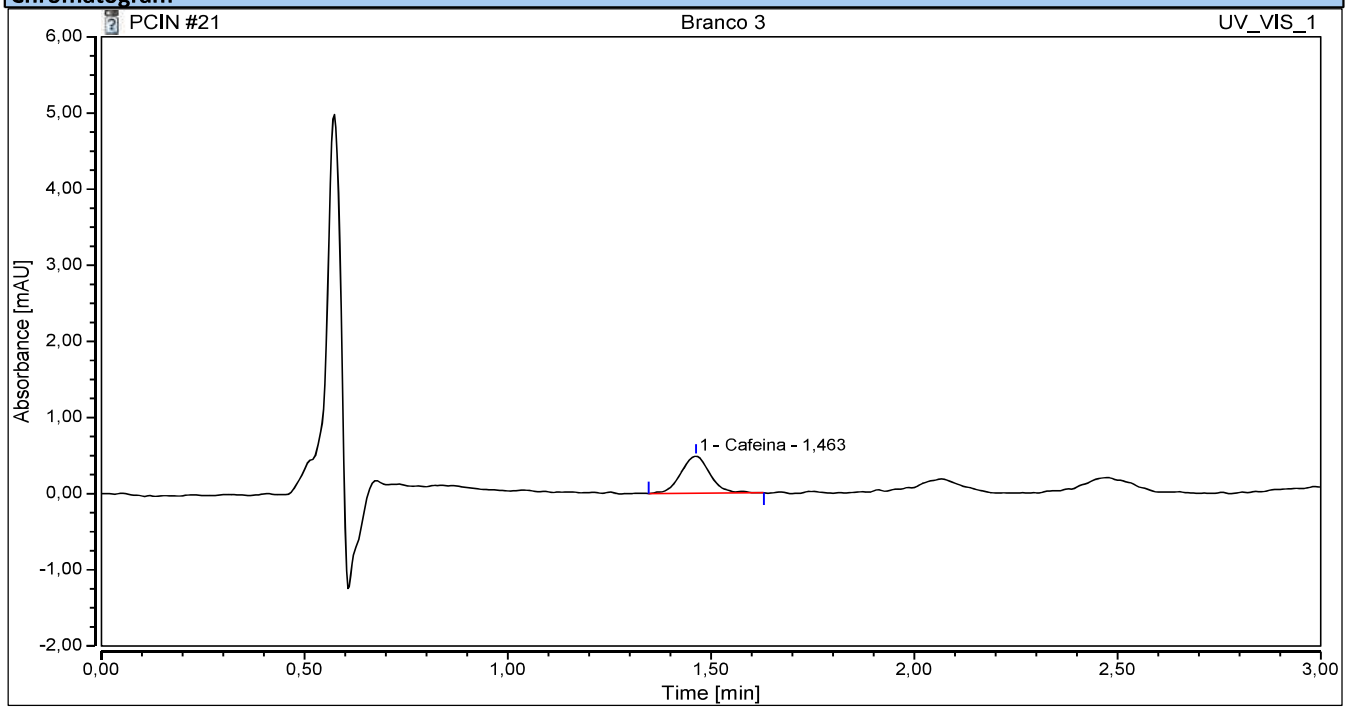

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **Branco 3** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 14:37** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,463 | 0,0403 | 0,487 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **0,040** | **0,487** | **100,000** | **100,000** | |


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**Resultado obtido na altura do pico**

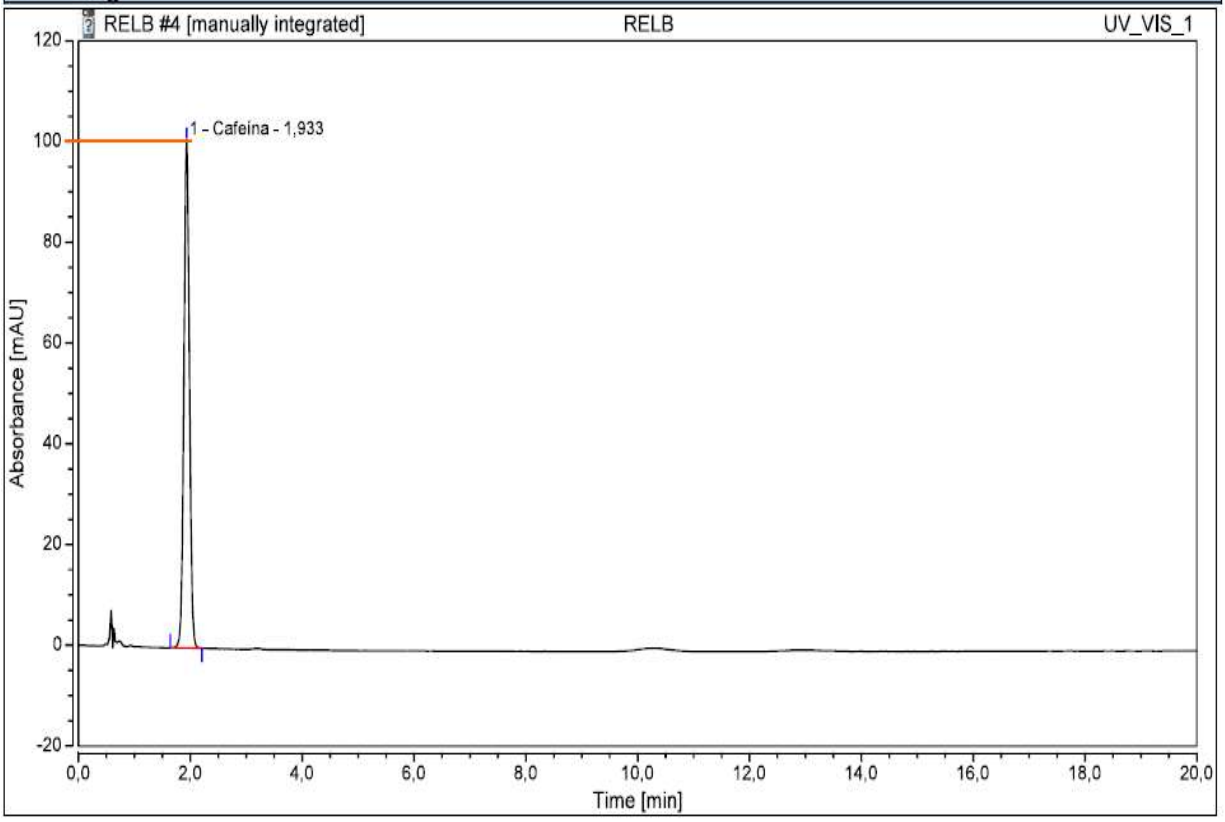
| | ALTURA DO PICO (mAU) |
|---|---|
| **Resultado:** | **100,5380** |

## Chromatogram and Results

### Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | RELB | *Run Time (min):* | 20,00 |
| *Vial Number:* | RA1 | *Injection Volume:* | 20,00 |
| *Injection Type:* | Unknown | *Channel:* | UV_VIS_1 |
| *Calibration Level:* | | *Wavelength:* | 250 |
| *Instrument Method:* | RELB | *Bandwidth:* | 1 |
| *Processing Method:* | RELB | *Dilution Factor:* | 1,0000 |
| *Injection Date/Time:* | 09/set/25 14:57 | *Sample Weight:* | 1,0000 |

### Chromatogram

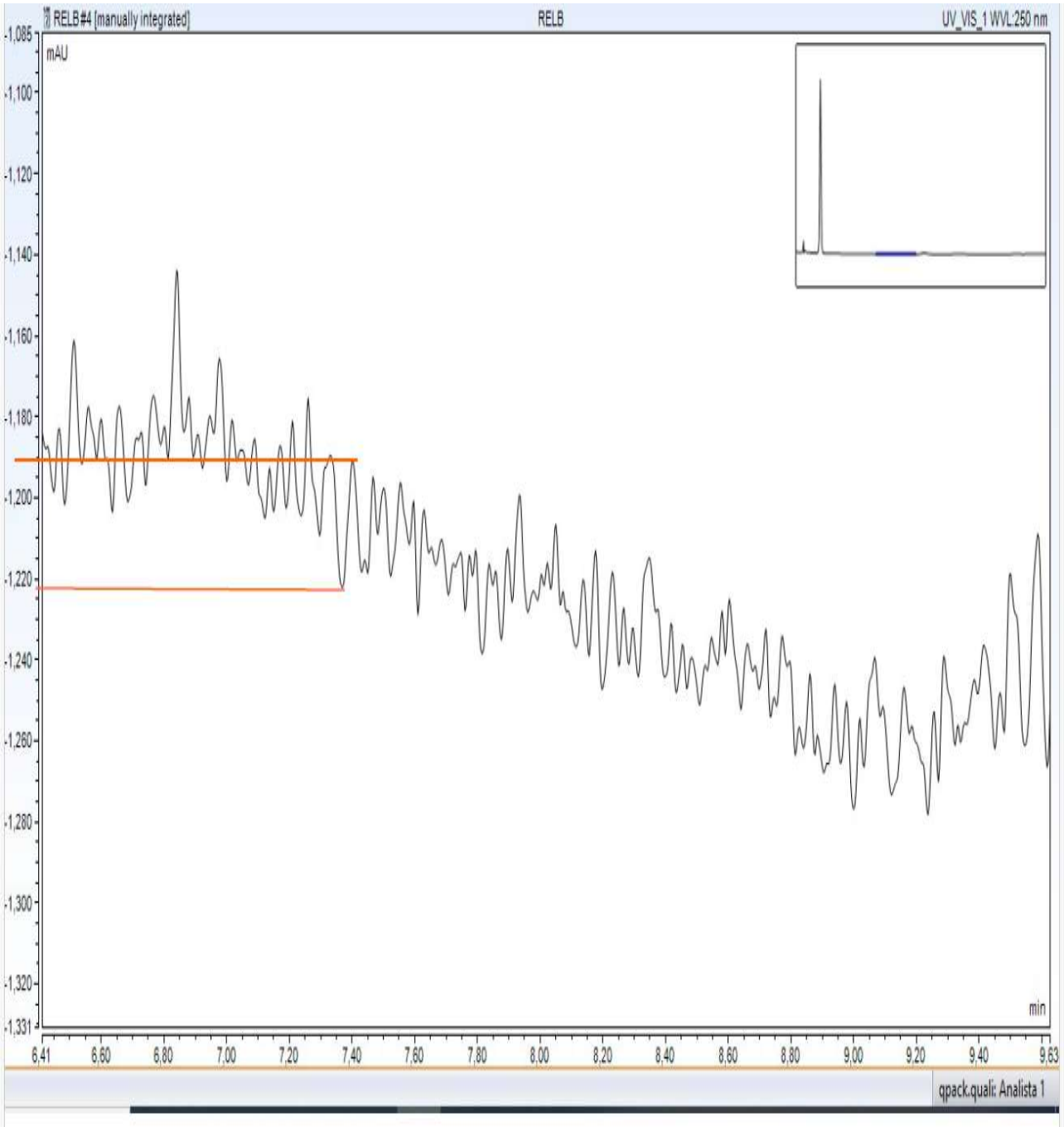



### Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeína | 1,933 | 11,4860 | 100,538 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **11,486** | **100,538** | **100,000** | **100,000** | |

**Resultado obtido no teste de sinal/ruído**

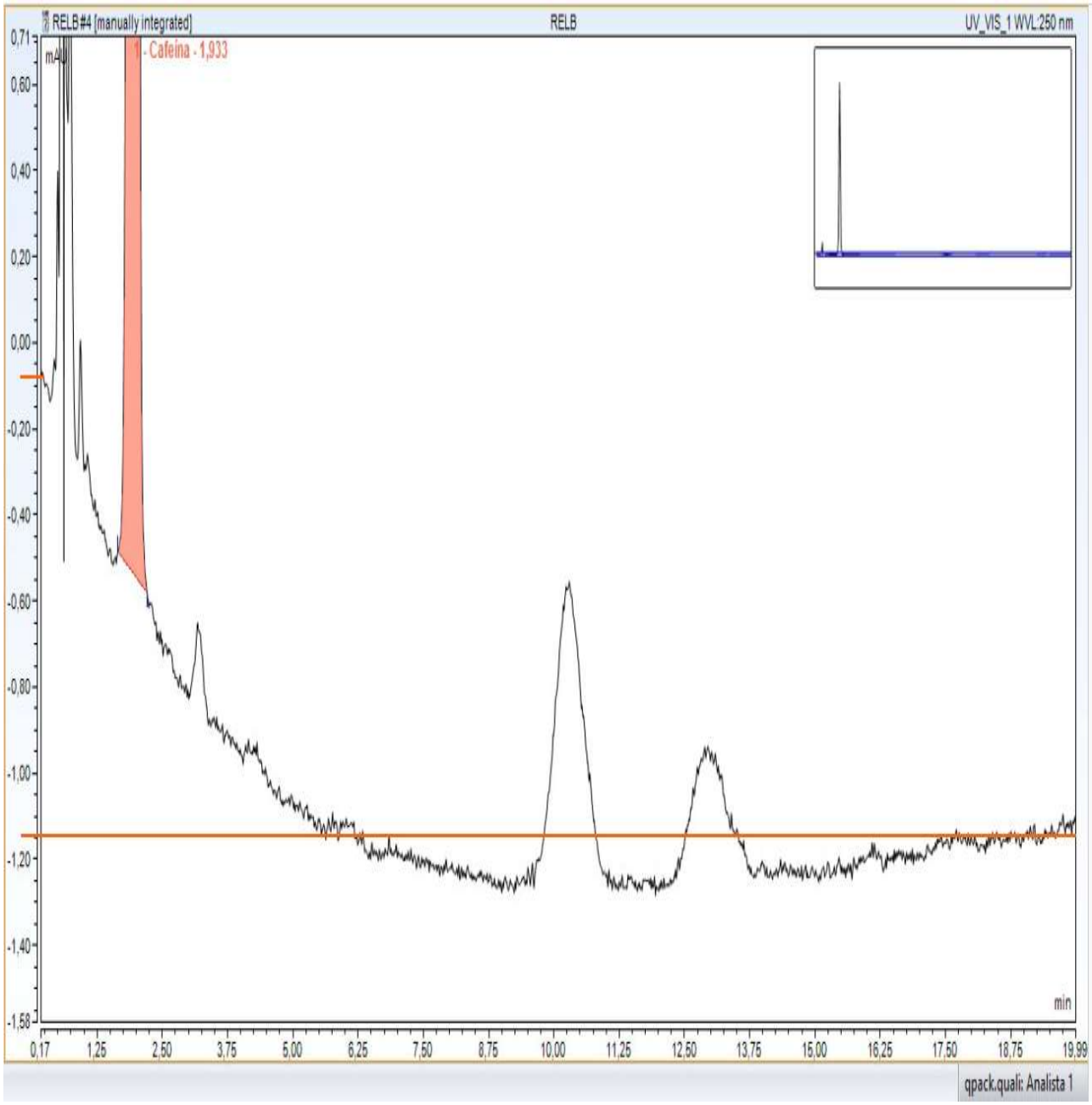
| Resultado: | Ruído (mAU) |
|---|---|
| VALOR MÁXIMO: | -1,190 |
| VALOR MÍNIMO: | -1,222 |
| | Ruído |
| | 0,032 |



| Certificado Nº:423/25 - RELB | Início da Qualificação: 09/09/2025 | Página 3 de 3 |
|---|---|---|

**Resultado obtido no teste estabilidade da linha de base**

| Estabilidade da Linha de Base | Diferença 20 min | Diferença 60 min |
|---|---|---|
| VALOR MÁXIMO: | -0,008 | 3,4260 |
| VALOR MÍNIMO: | -1,150 | |
| **Resultado:** | 1,1420 | |

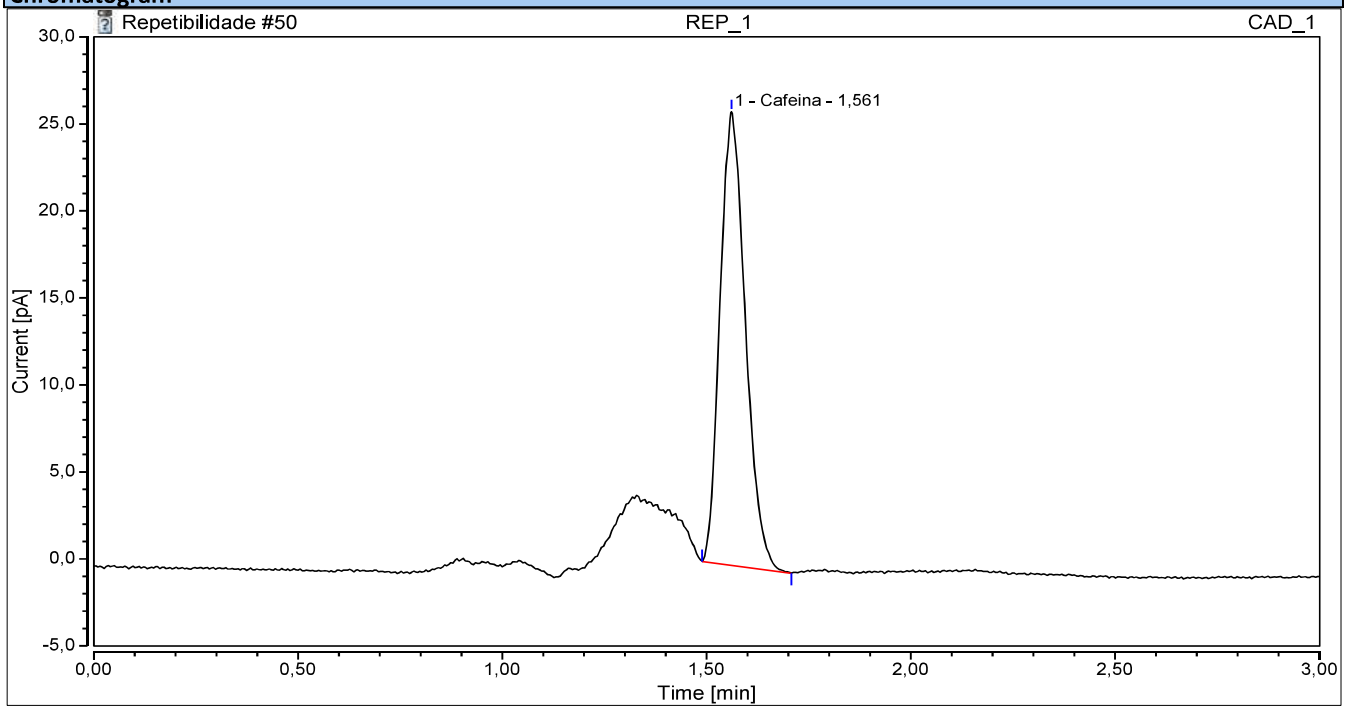


# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **REP_1** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **20,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **CAD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **Qualificação Corona** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **PROCESS_Corona** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **11/set/25 10:30** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area pA*min | Height pA | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,561 | 1,8758 | 26,074 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **1,876** | **26,074** | **100,000** | **100,000** | |

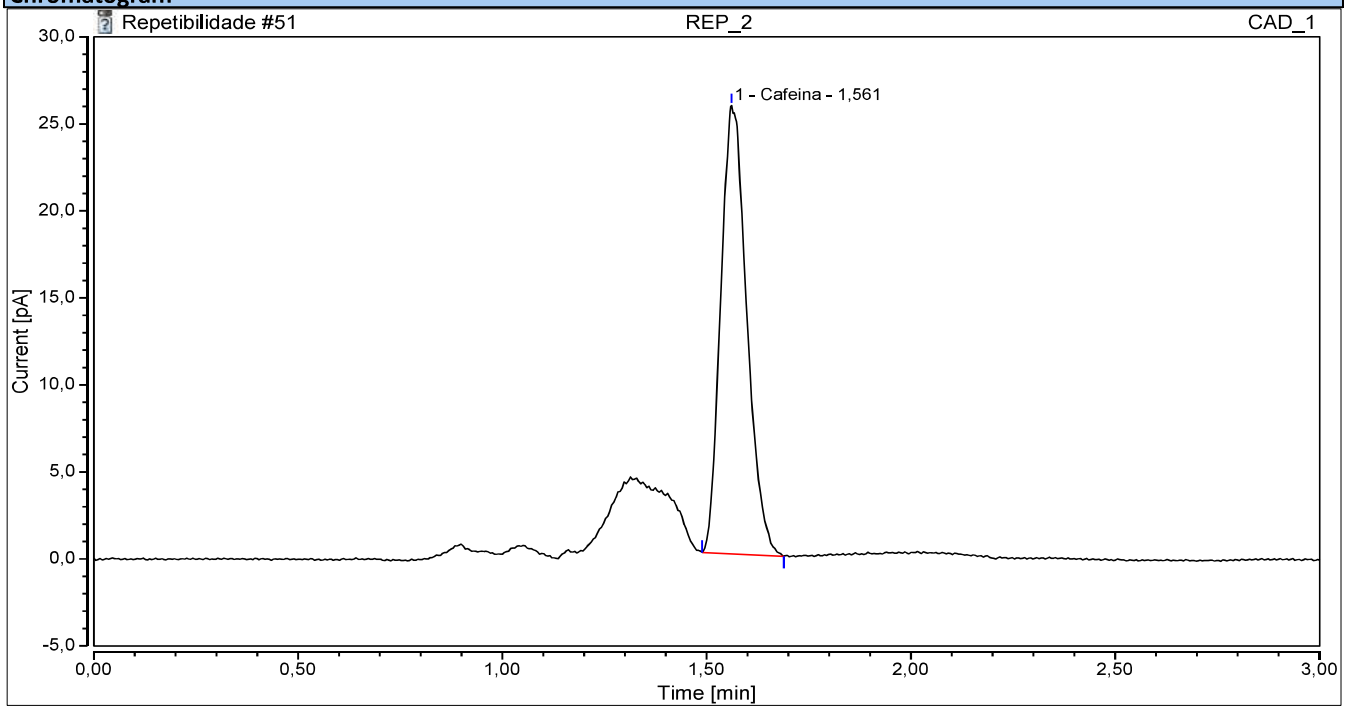

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **REP_2** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **20,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **CAD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **Qualificação Corona** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **PROCESS_Corona** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **11/set/25 10:34** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area pA*min | Height pA | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,561 | 1,9040 | 25,758 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **1,904** | **25,758** | **100,000** | **100,000** | |

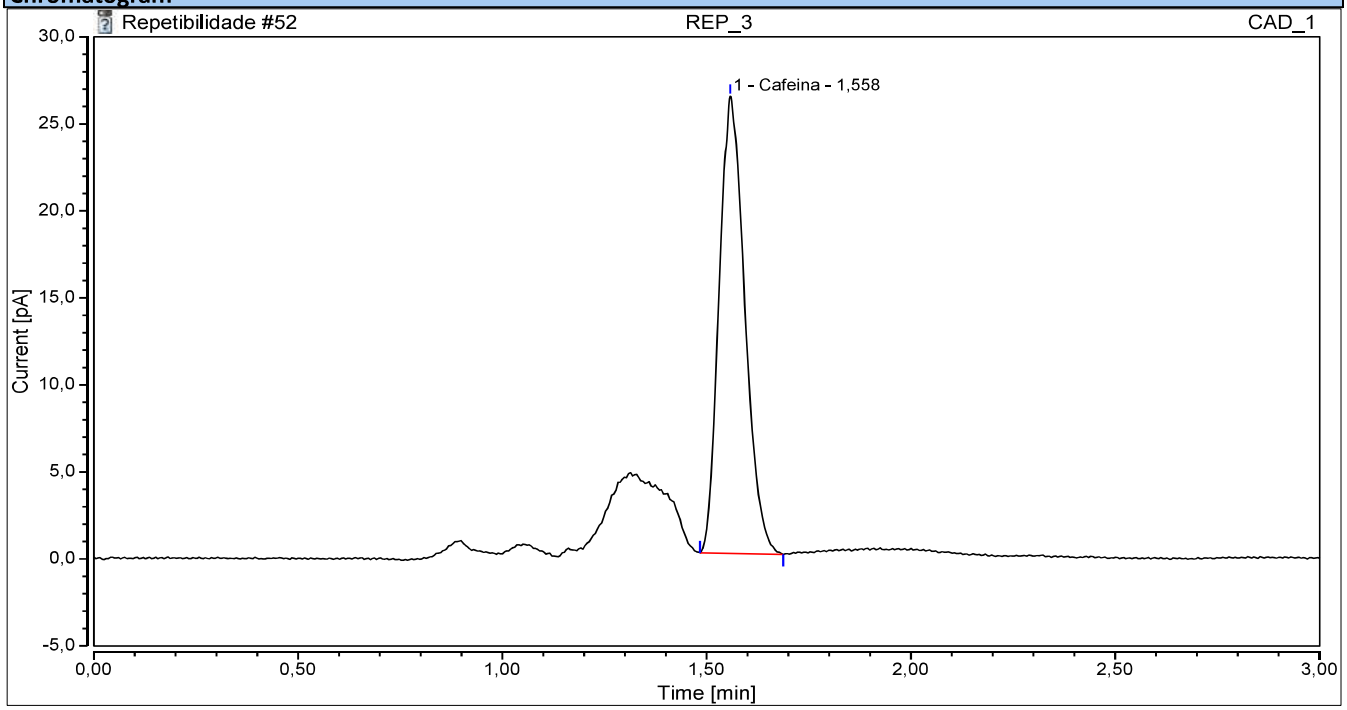
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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **REP_3** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **20,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **CAD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **Qualificação Corona** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **PROCESS_Corona** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **11/set/25 10:38** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area pA*min | Height pA | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,558 | 1,9150 | 26,273 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **1,915** | **26,273** | **100,000** | **100,000** | |

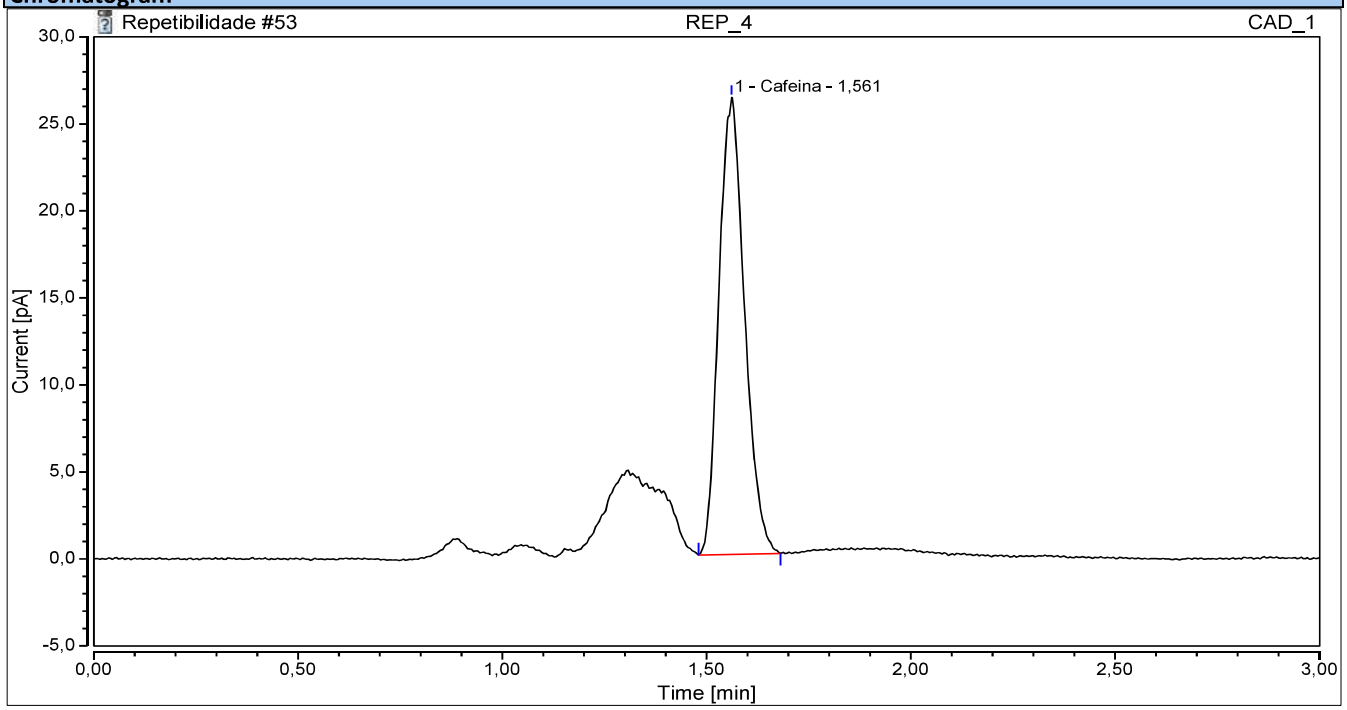

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **REP_4** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **20,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **CAD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **Qualificação Corona** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **PROCESS_Corona** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **11/set/25 10:42** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area pA*min | Height pA | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,561 | 1,9089 | 26,260 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **1,909** | **26,260** | **100,000** | **100,000** | |

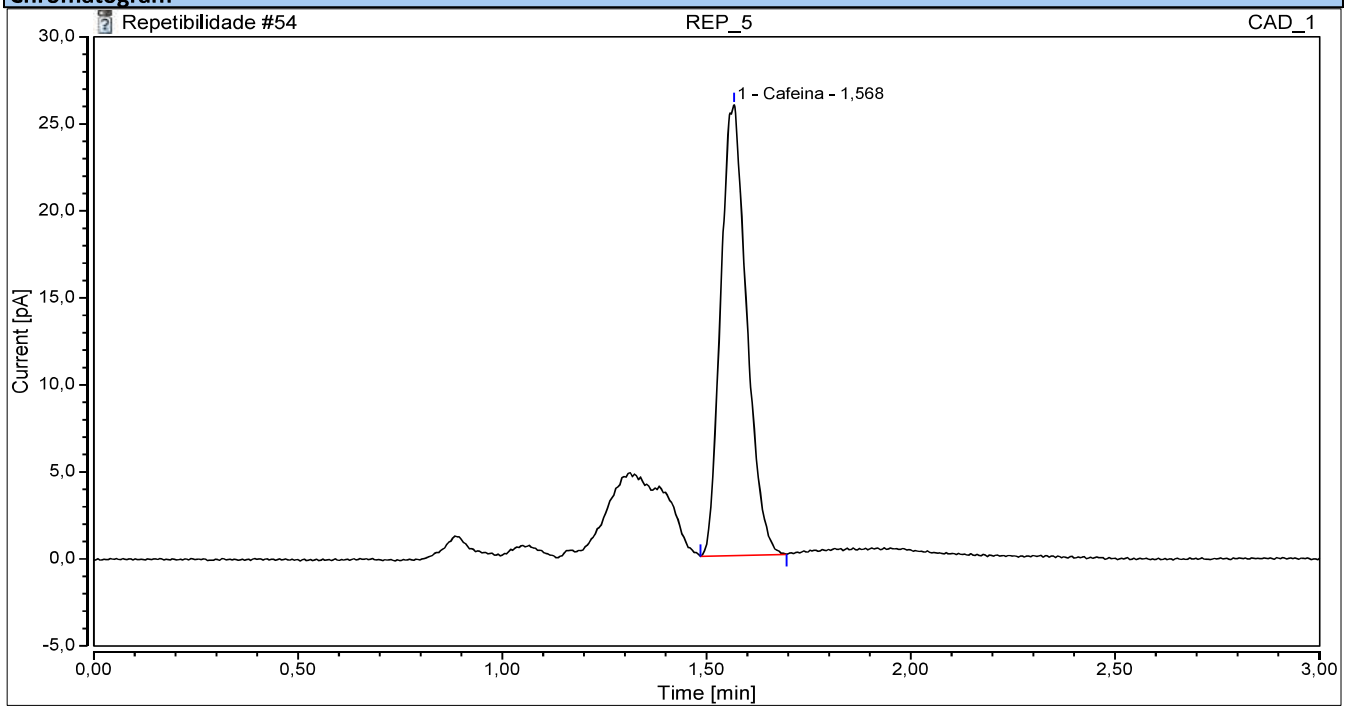

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **REP_5** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **20,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **CAD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **Qualificação Corona** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **PROCESS_Corona** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **11/set/25 10:46** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area pA*min | Height pA | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,568 | 1,9091 | 25,903 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **1,909** | **25,903** | **100,000** | **100,000** | |

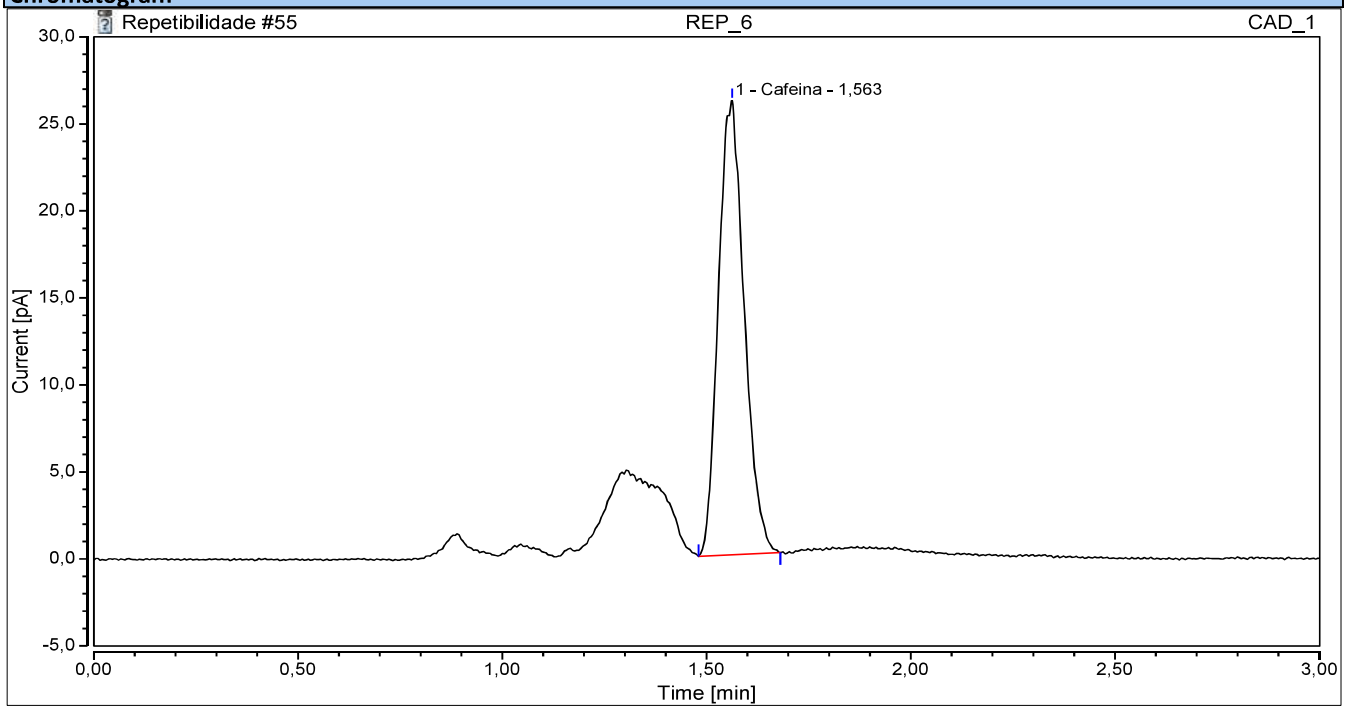

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **REP_6** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **20,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **CAD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **Qualificação Corona** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **PROCESS_Corona** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **11/set/25 10:50** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area pA*min | Height pA | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,563 | 1,9148 | 26,099 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **1,915** | **26,099** | **100,000** | **100,000** | |

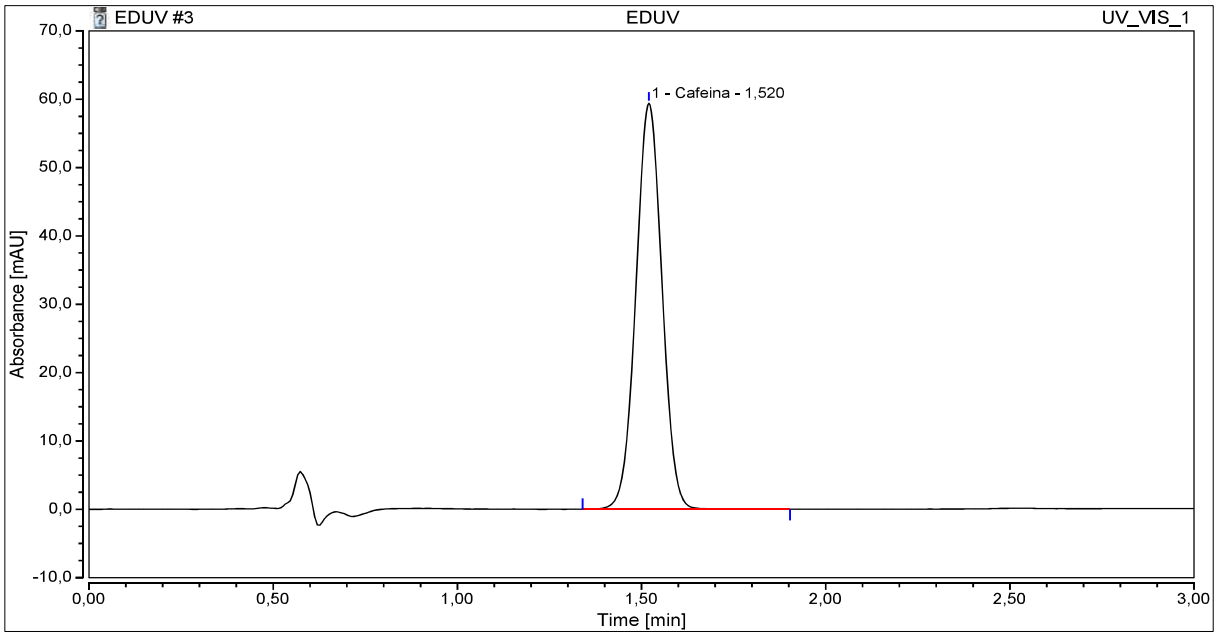

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# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **EDUV** | *Run Time (min):* | **3,00** |
| *Vial Number:* | **RA1** | *Injection Volume:* | **10,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Qualificação** | *Bandwidth:* | **3** |
| *Processing Method:* | **Qualificação** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 15:41** | *Sample Weight:* | **1,0000** |

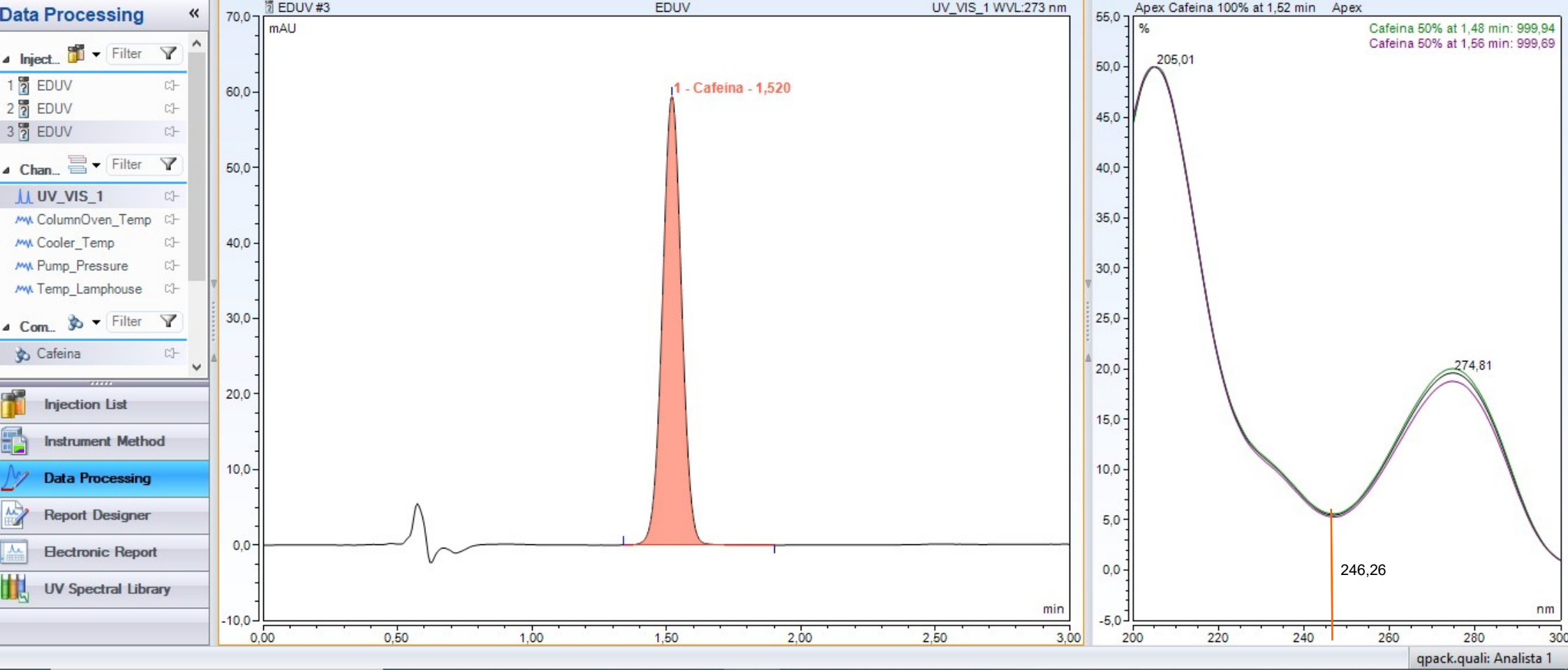
## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Cafeina | 1,520 | 4,8761 | 59,414 | 100,00 | 100,00 | n.a. |
| **Total:** | | | **4,876** | **59,414** | **100,000** | **100,000** | |

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Chromeleon 7.3.2.11814

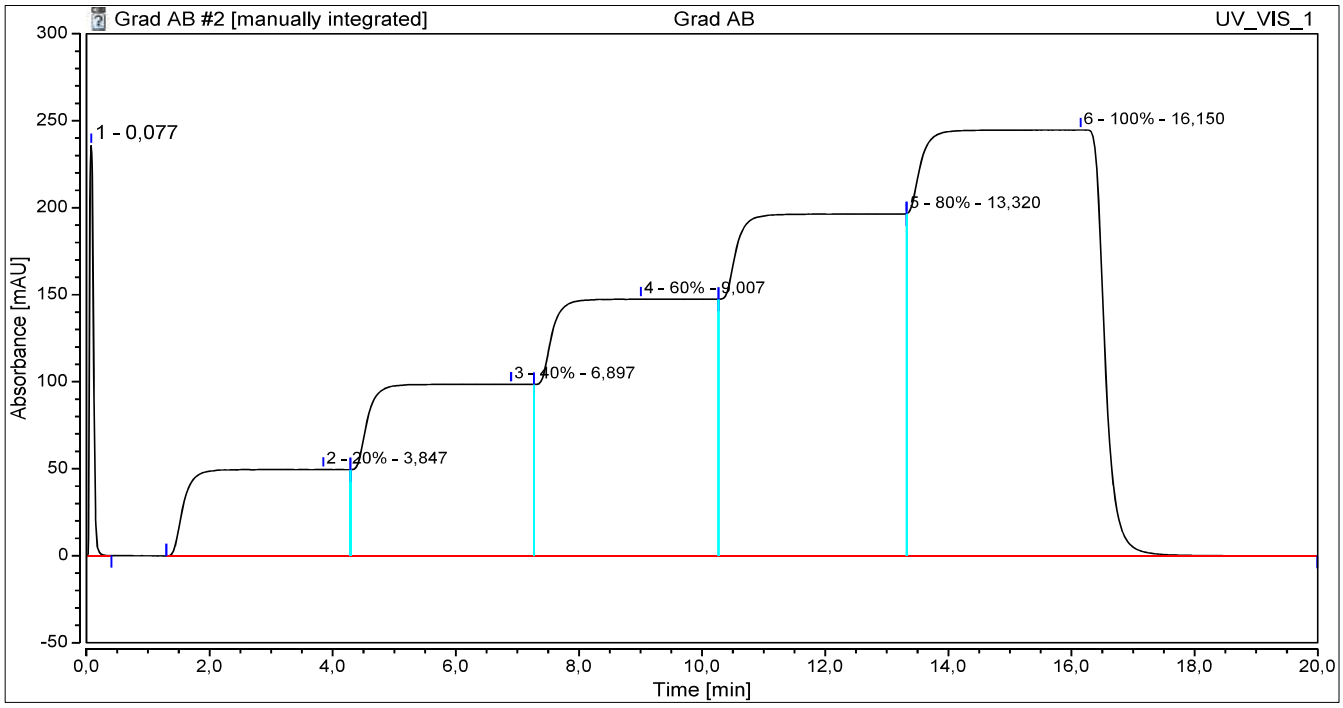

Data Processing
Inject...
Filter
1 EDUV
2 EDUV
3 EDUV
Chan...
Filter
UV_VIS_1
ColumnOven_Temp
Cooler_Temp
Pump_Pressure
Temp_Lamphouse
Com...
Filter
Cafeina
Injection List
Instrument Method
Data Processing
Report Designer
Electronic Report
UV Spectral Library
EDUV #3
EDUV
UV_VIS_1 WVL:273 nm
mAU
1 - Cafeina - 1,520
min
Apex Cafeina 100% at 1,52 min
Apex
%
Cafeina 50% at 1,48 min: 999,94
Cafeina 50% at 1,56 min: 999,69
205,01
274,81
246,26
nm
qpack.quali: Analista 1

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **Grad AB** | *Run Time (min):* | **20,00** |
| *Vial Number:* | **BA1** | *Injection Volume:* | **0,00** |
| *Injection Type:* | **Unknown** | *Channel:* | **UV_VIS_1** |
| *Calibration Level:* | | *Wavelength:* | **273** |
| *Instrument Method:* | **Grad AB** | *Bandwidth:* | **3** |
| *Processing Method:* | **Gradiente** | *Dilution Factor:* | **1,0000** |
| *Injection Date/Time:* | **09/set/25 10:44** | *Sample Weight:* | **1,0000** |

## Chromatogram




## Integration Results

| No. | Peakname | RetentionTime min | Area mAU*min | Height mAU | Relative Area % | Rel.Height % | Amount |
|---|---|---|---|---|---|---|---|
| 2 | 20% | 3,847 | 134,2999 | 49,669 | 6,03 | 5,10 | n.a. |
| 3 | 40% | 6,897 | 280,2004 | 98,632 | 12,57 | 10,14 | n.a. |
| 4 | 60% | 9,007 | 427,5998 | 147,614 | 19,18 | 15,17 | n.a. |
| 5 | 80% | 13,320 | 585,4234 | 196,639 | 26,27 | 20,21 | n.a. |
| 6 | 100% | 16,150 | 783,9903 | 244,831 | 35,17 | 25,16 | n.a. |
| **Total:** | | | **2211,514** | **737,385** | **99,223** | **75,785** | |

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