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| INFORME DE ENSAYO | | |
| **Nro. De Informe de Ensayo**.: | **123** | |
|  | **Muestra de prueba** | |
| **Ensayado por (+ firma)**......: |  | |
| **Aprobado por (+ firma)**.....: |  | |
| **Fecha de Emisión:** .............: | 08/06/2023 | |
| **Laboratorio de Ensayo**........... .......: LENOR S.R.L  **Dirección** .........................................: FRAGA 979 – C1427BTS – BUENOS AIRES – ARGENTINA  **Lugar de Ensayo**............................: LENOR S.R.L. | | |
| **Solicitante**...............................: Lenor SRL  **Dirección**................................: Fraga 979 - Caba | | |
| Especificación de Ensayo Solventes residuales – USP 43 | | **Resumen de Ensayo:** |
| CUMPLE ENSAYO |
| **Descripción del ítem ensayado**....: Muestra de prueba  **Nº set**………………………….…: 456  **Lote**..............................................: 4567  **Marca Registrada**.......................: Cisco  **Importador/Fabricante**..............: LinkSys  **Dirección**......................................: Paseo Colon 650  **Origen**.........................................: China  **Identificación Certificadora**.......: IRAM | | |
| Muestreo: Los ensayos se realizaron sobre las muestras entregadas por el solicitante. **Conservación de muestras:** Finalizados los ensayos o servicios contratados, emitidos y retirados los Informes, la muestra ensayada será conservada en el laboratorio por un plazo máximo de 30 días corridos, salvo acuerdo de lo contrario. Vencido ese plazo se dispondrá su destrucción. | | |
| Ensayo Fecha de recepción del ítem de ensayo..........: 14/05/2023  Fecha (s) de realización del ensayo................:14/05/2023 al 01/06/2023 | | |

**RESULTADOS OBTENIDOS**

**Determinación de solventes residuales**

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**Determinación de solventes residuales**

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| --- | --- | --- | --- | --- | --- | --- |
| **Descripción** | **Código/Lote** | **Resultado**  **[mg/kg]** | | **Especificación**  **[mg/kg]** | **Límite de**  **detección**  **[mg/kg]** | **Conclusión** |
| Muestra de prueba | 4567 | ACETATO DE ETILO | 220 | <= 5000 | 5.0 | CUMPLE |
| ACETONA | 222 | <= 5000 | 10.0 | CUMPLE |
| ND: No detectado | | | | | | |

**LISTADO DE INSTRUMENTOS Y DISPOSITIVOS UTILIZADOS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Identificación interna** | **Descripción** | **Marca** | **Modelo** | **Última calibración** | **Próxima calibración** |
| **LB1319** | Balanza | Shimadzu | AUY220 | Jul-21 | Jul-22 |
| **LB2014** | Termohigrómetro | Testo | 608-H1 | Ago-20 | Ago-22 |
| **LB1243** | Cromatógrafo gaseoso | Shimadzu | GS-2010 | Jul-20 | Jul-22 |
| **LB1244** | Headspace Autosampler | Tekmar HT3 | Teledyne | Jul-20 | Jul-22 |

DATOS DE LA MUESTRA

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| **# Muestra** | **Masa**  **[g]** | **Volumen final**  **[ml]** |
| 1 | 0.1039 | 5 |
| 2 | 0.1108 | 5 |

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| **Solvente** | **Area 1** | **Contenido 1** | **Area 2** | **Contenido 2** | **Promedio** |
| ACETATO DE ETILO | 36804 | 231 | 35287 | 208 | 220 |
| ACETONA | 15986 | 229 | 16087 | 216 | 222 |

DATOS DEL ESTANDAR STD 1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **METANOL** | | | **ETANOL** | | | **ACETONA** | | |
| Area #1 | 59551 |  | Area #1 | 160017 |  | Area #1 | 336116 |  |
| Area #2 | 45407 |  | Area #2 | 130913 |  | Area #2 | 330486 |  |
| Area #3 | 40300 |  | Area #3 | 125298 |  | Area #3 | 350852 |  |
| Area #4 | 55407 |  | Area #4 | 157652 |  | Area #4 | 356879 |  |
| Area #5 | 52520 |  | Area #5 | 144569 |  | Area #5 | 318947 |  |
| Area #6 | 45872 |  | Area #6 | 135297 |  | Area #6 | 348196 |  |
| Masa | 0.0000 | g | Masa | 1.0071 | g | Masa | 1.0128 | g |
| Volumen final | 10 | ml | Volumen final | 10 | ml | Volumen final | 10 | ml |
| Dilusion | 1000 |  | Dilusion | 1000 |  | Dilusion | 1000 |  |
| Alicuota | 5 | ml | Alicuota | 5 | ml | Alicuota | 5 | ml |
| CC final | 0.0000 | mg/ml | CC final | 0.1005 | mg/ml | CC final | 0.1011 | mg/ml |
| Area prom | 49843 |  | Area prom | 142291 |  | Area prom | 340246 |  |
| DS | 7195.63 |  | DS | 14300.33 |  | DS | 14271.01 |  |
| CV | 14 | % | CV | 10 | % | CV | 4 | % |
| Pureza | 0.00 | % | Pureza | 99.80 | % | Pureza | 99.80 | % |

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| **1-PROPANOL** | | | **2-PROPANOL** | | | **TETRAHIDROFURANO** | | |
| Area #1 | 237161 |  | Area #1 | 230115 |  | Area #1 | 116229 |  |
| Area #2 | 207001 |  | Area #2 | 207968 |  | Area #2 | 120318 |  |
| Area #3 | 209740 |  | Area #3 | 219409 |  | Area #3 | 129169 |  |
| Area #4 | 243012 |  | Area #4 | 239065 |  | Area #4 | 125582 |  |
| Area #5 | 217378 |  | Area #5 | 214057 |  | Area #5 | 111227 |  |
| Area #6 | 217454 |  | Area #6 | 219734 |  | Area #6 | 126013 |  |
| Masa | 0.0000 | g | Masa | 0.0000 | g | Masa | 0.0000 | g |
| Volumen final | 10 | ml | Volumen final | 10 | ml | Volumen final | 10 | ml |
| Dilusion | 1000 |  | Dilusion | 1000 |  | Dilusion | 1000 |  |
| Alicuota | 5 | ml | Alicuota | 5 | ml | Alicuota | 5 | ml |
| CC final | 0.0000 | mg/ml | CC final | 0.0000 | mg/ml | CC final | 0.0000 | mg/ml |
| Area prom | 221958 |  | Area prom | 221725 |  | Area prom | 121423 |  |
| DS | 14755.72 |  | DS | 11211.15 |  | DS | 6790.04 |  |
| CV | 7 | % | CV | 5 | % | CV | 6 | % |
| Pureza | 0.00 | % | Pureza | 0.00 | % | Pureza | 0.00 | % |

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| **1,4-DIOXANO** | | | **PIRIDINA** | | |
| Area #1 | 8760 |  | Area #1 | 9427 |  |
| Area #2 | 6305 |  | Area #2 | 7819 |  |
| Area #3 | 6428 |  | Area #3 | 7304 |  |
| Area #4 | 7812 |  | Area #4 | 9235 |  |
| Area #5 | 7579 |  | Area #5 | 8473 |  |
| Area #6 | 6699 |  | Area #6 | 7771 |  |
| Masa | 0.0000 | g | Masa | 0.0000 | g |
| Volumen final | 10 | ml | Volumen final | 10 | ml |
| Dilusion | 1000 |  | Dilusion | 1000 |  |
| Alicuota | 5 | ml | Alicuota | 5 | ml |
| CC final | 0.0000 | mg/ml | CC final | 0.0000 | mg/ml |
| Area prom | 7264 |  | Area prom | 8338 |  |
| DS | 956.59 |  | DS | 856.59 |  |
| CV | 13 | % | CV | 10 | % |
| Pureza | 0.00 | % | Pureza | 0.00 | % |

DATOS DEL ESTANDAR STD 2

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CLORURO DE METILENO** | | | **ACETATO DE ETILO** | | | **TOLUENO** | | |
| Masa | 0.0000 | g | Masa | 0.0000 | g | Masa | 0.0000 | g |
| Volumen final | 0 | ml | Volumen final | 0 | ml | Volumen final | 0 | ml |
| Dilusion | 0 |  | Dilusion | 0 |  | Dilusion | 0 |  |
| Alicuota | 0 | ml | Alicuota | 0 | ml | Alicuota | 0 | ml |
| CC final | 0.0000 | mg/ml | CC final | 0.0000 | mg/ml | CC final | 0.0000 | mg/ml |
| Area prom | 110378 |  | Area prom | 823870 |  | Area prom | 657456 |  |
| DS | 0.00 |  | DS | 0.00 |  | DS | 0.00 |  |
| CV | 0 | % | CV | 0 | % | CV | 0 | % |
| Pureza | 0.00 | % | Pureza | 0.00 | % | Pureza | 0.00 | % |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CLORURO DE METILENO** | | | **CLOROFORMO** | | | **BENCENO** | | |
| Masa | 0.0000 | g | Masa | 0.0000 | g | Masa | 0.0000 | g |
| Volumen final | 0 | ml | Volumen final | 0 | ml | Volumen final | 0 | ml |
| Dilusion | 0 |  | Dilusion | 0 |  | Dilusion | 0 |  |
| Alicuota | 0 | ml | Alicuota | 0 | ml | Alicuota | 0 | ml |
| CC final | 0.0000 | mg/ml | CC final | 0.0000 | mg/ml | CC final | 0.0000 | mg/ml |
| Area prom | 0 |  | Area prom | 17585 |  | Area prom | 344777 |  |
| DS | 0.00 |  | DS | 0.00 |  | DS | 0.00 |  |
| CV | 0 | % | CV | 0 | % | CV | 0 | % |
| Pureza | 0.00 | % | Pureza | 0.00 | % | Pureza | 0.00 | % |

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| --- | --- | --- | --- | --- | --- |
| **TRICLOROETILENO** | | | **XILENO** | | |
| Masa | 0.0000 | g | Masa | 0.0000 | g |
| Volumen final | 0 | ml | Volumen final | 0 | ml |
| Dilusion | 0 |  | Dilusion | 0 |  |
| Alicuota | 0 | ml | Alicuota | 0 | ml |
| CC final | 0.0000 | mg/ml | CC final | 0.0000 | mg/ml |
| Area prom | 55205 |  | Area prom | 1580809 |  |
| DS | 0.00 |  | DS | 0.00 |  |
| CV | 0 | % | CV | 0 | % |
| Pureza | 0.00 | % | Pureza | 0.00 | % |

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| --- | --- |
| Analysis Date & Time | 7/2/2022 14:12:32 |
| User Name | System Administrator |
| Vial# | 7 |
| Sample Name | PIPERACILINA+TAZOBACTAM (8:1) (ESTERIL) L.217018 |
| Sample Id | UNK-0007 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\07-02-2022-IOV007.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |
| 1 | 4.377 | 15986 | 4094 | ACETONA |
| 2 | 7.850 | 36804 | 5608 | ACETATO DE ETILO |

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| --- | --- |
| Analysis Date & Time | 7/2/2022 15:06:26 |
| User Name | System Administrator |
| Vial# | 8 |
| Sample Name | PIPERACILINA+TAZOBACTAM (8:1) (ESTERIL) L.217018 |
| Sample Id | UNK-0008 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\07-02-2022-IOV008.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| --- | --- | --- | --- | --- |
| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |
| 1 | 4.378 | 16087 | 4175 | ACETONA |
| 2 | 7.850 | 35287 | 5548 | ACETATO DE ETILO |

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| --- | --- |
| Analysis Date & Time | 7/2/2022 09:43:02 |
| User Name | System Administrator |
| Vial# | 2 |
| Sample Name | BLANCO |
| Sample Id | UNK-0002 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\07-02-2022-IOV002.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |

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| --- | --- |
| Analysis Date & Time | 4/2/2022 16:12:42 |
| User Name | System Administrator |
| Vial# | 2 |
| Sample Name | STD 1 |
| Sample Id | UNK-0002 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\04-02-2022-IOV002.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |
| 1 | 3.008 | 59551 | 15331 | METANOL |
| 2 | 3.867 | 160017 | 41315 | ETANOL |
| 3 | 4.359 | 336116 | 89478 | ACETONA |
| 4 | 4.610 | 230115 | 54624 | 2-PROPANOL |
| 5 | 4.892 | 22384 | 5131 | ACETONITRILO |
| 6 | 6.720 | 237161 | 43480 | 1-PROPANOL |
| 7 | 8.412 | 116229 | 18705 | TETRAHIDROFURANO |
| 8 | 15.460 | 8760 | 814 | 1,4-DIOXANO |
| 9 | 22.207 | 9427 | 341 | PIRIDINA |

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| Analysis Date & Time | 4/2/2022 17:06:34 |
| User Name | System Administrator |
| Vial# | 3 |
| Sample Name | STD 1 |
| Sample Id | UNK-0003 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\04-02-2022-IOV003.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |
| 1 | 3.005 | 45407 | 11588 | METANOL |
| 2 | 3.863 | 130913 | 33355 | ETANOL |
| 3 | 4.357 | 330486 | 87466 | ACETONA |
| 4 | 4.602 | 207968 | 48801 | 2-PROPANOL |
| 5 | 4.893 | 20280 | 4476 | ACETONITRILO |
| 6 | 6.711 | 207001 | 37220 | 1-PROPANOL |
| 7 | 8.409 | 120318 | 19160 | TETRAHIDROFURANO |
| 8 | 15.455 | 6305 | 618 | 1,4-DIOXANO |
| 9 | 22.251 | 7819 | 284 | PIRIDINA |

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| --- | --- |
| Analysis Date & Time | 4/2/2022 18:00:25 |
| User Name | System Administrator |
| Vial# | 4 |
| Sample Name | STD 1 |
| Sample Id | UNK-0004 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\04-02-2022-IOV004.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| --- | --- | --- | --- | --- |
| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |
| 1 | 3.004 | 40300 | 10286 | METANOL |
| 2 | 3.859 | 125298 | 31771 | ETANOL |
| 3 | 4.356 | 350852 | 92165 | ACETONA |
| 4 | 4.597 | 219409 | 51311 | 2-PROPANOL |
| 5 | 4.892 | 20670 | 4506 | ACETONITRILO |
| 6 | 6.706 | 209740 | 37705 | 1-PROPANOL |
| 7 | 8.409 | 129169 | 20740 | TETRAHIDROFURANO |
| 8 | 15.459 | 6428 | 583 | 1,4-DIOXANO |
| 9 | 22.242 | 7304 | 276 | PIRIDINA |

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| Analysis Date & Time | 4/2/2022 18:54:23 |
| User Name | System Administrator |
| Vial# | 5 |
| Sample Name | STD 1 |
| Sample Id | UNK-0005 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\04-02-2022-IOV005.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| --- | --- | --- | --- | --- |
| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |
| 1 | 3.005 | 55407 | 14184 | METANOL |
| 2 | 3.863 | 157652 | 40511 | ETANOL |
| 3 | 4.357 | 356879 | 95488 | ACETONA |
| 4 | 4.603 | 239065 | 56408 | 2-PROPANOL |
| 5 | 4.892 | 23033 | 5146 | ACETONITRILO |
| 6 | 6.713 | 243012 | 43869 | 1-PROPANOL |
| 7 | 8.409 | 125582 | 20031 | TETRAHIDROFURANO |
| 8 | 15.456 | 7812 | 750 | 1,4-DIOXANO |
| 9 | 22.193 | 9235 | 349 | PIRIDINA |

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| Analysis Date & Time | 4/2/2022 19:48:16 |
| User Name | System Administrator |
| Vial# | 6 |
| Sample Name | STD 1 |
| Sample Id | UNK-0006 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\04-02-2022-IOV006.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |
| 1 | 3.007 | 52520 | 13667 | METANOL |
| 2 | 3.869 | 144569 | 37544 | ETANOL |
| 3 | 4.360 | 318947 | 84766 | ACETONA |
| 4 | 4.611 | 214057 | 50778 | 2-PROPANOL |
| 5 | 4.895 | 20873 | 4758 | ACETONITRILO |
| 6 | 6.723 | 217378 | 39603 | 1-PROPANOL |
| 7 | 8.415 | 111227 | 17901 | TETRAHIDROFURANO |
| 8 | 15.468 | 7579 | 716 | 1,4-DIOXANO |
| 9 | 22.237 | 8473 | 313 | PIRIDINA |

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| --- | --- |
| Analysis Date & Time | 4/2/2022 21:36:02 |
| User Name | System Administrator |
| Vial# | 8 |
| Sample Name | STD 1 |
| Sample Id | UNK-0008 |
| Data Name | C:\LabSolutions\Data\2022\02-Febrero\04-02-2022-IOV008.gcd |
| Method Name | C:\LabSolutions\Data\M�todos\Solventes Residuales - Varios.gcm |
| Report Name | C:\LabSolutions\Data\Reportes\Solventes residuales - Varios.lsr |

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| --- | --- | --- | --- | --- |
| **Peak#** | **Ret. Time** | **Area** | **Height** | **Cmpd Name** |
| 1 | 3.006 | 45872 | 11804 | METANOL |
| 2 | 3.863 | 135297 | 34829 | ETANOL |
| 3 | 4.358 | 348196 | 92568 | ACETONA |
| 4 | 4.603 | 219734 | 51616 | 2-PROPANOL |
| 5 | 4.893 | 20430 | 4591 | ACETONITRILO |
| 6 | 6.712 | 217454 | 38929 | 1-PROPANOL |
| 7 | 8.409 | 126013 | 20252 | TETRAHIDROFURANO |
| 8 | 15.462 | 6699 | 640 | 1,4-DIOXANO |
| 9 | 22.230 | 7771 | 297 | PIRIDINA |

**IMÁGENES DEL PRODUCTO**

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**NOTAS DE ENSAYO**

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