

## Informe de análisis

\* Las actividades marcadas no están amparadas por la acreditación de ENAC.

### DATOS GENERALES

**INFORME Nº:** 3141169

**ANÁLISIS Nº:** 5544309

**MUESTRA REMITIDA POR:** AIGÜES I SANEJAMENT D'ELX, S.A. AGUA POTABLE

**DOMICILIO:** PLAÇA DE LA LLOTJA, 1

**POBLACION:** 03202-ELCHE

**# DENOMINACIÓN MUESTRA:** Carrús, dep. cabecera

**DESCRIPCIÓN MUESTRA:** Plástico de 500 mL(1), Plástico estéril de 500 mL(1), Tubo esteril 50 mL (HNO<sub>3</sub>)(1), Tubo estéril 50 mL (2), Tubo estéril 50 mL (NaOH)(1), Vial 50 mL (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>)(3), Vial de 50 mL (H<sub>2</sub>SO<sub>4</sub>)(1), Vidrio topacio 250mL (Tiosulfato sodico)(1), conteniendo agua de consumo

**FECHA RECEPCIÓN:** 7/10/2021

**FECHA FINALIZACIÓN Y EMISIÓN:** 2/11/2021

**Análisis realizado por INTERLAB Madrid. Ensayos cubiertos por la acreditación ENAC nº 1190/2327;-INTERLAB S.L.U. con sede en C/Santa Leonor, 39 1ª planta, 28037 Madrid:**

Fecha inicio análisis 7/10/2021.

| PARÁMETROS                        | MÉTODOS                                     | RD 140/2003 | RESULTADOS   | UNIDADES             |
|-----------------------------------|---------------------------------------------|-------------|--------------|----------------------|
| <b>Caracteres organolépticos</b>  |                                             |             |              |                      |
| Color                             | MAD-G-PE-0026 (UV/VIS)                      | 15          | < 3 ± 12%    | mg/L Pt/Co           |
| * Olor                            | MAD-G-PE-0257 Olor                          | 3 a 25°C    | 0            | Ind. de dil.         |
| * Sabor                           | MAD-G-PE-0256 Sabor                         | 3 a 25 °C   | 0            | Ind. de dil.         |
| Turbidez                          | MAD-G-PE-0228 (Turbidimetría)               | 1           | < 0.2 ± 18%  | UNF                  |
| <b>Caracteres Físico-Químicos</b> |                                             |             |              |                      |
| Amonio                            | MAD-E-PE-0003 (UV/VIS FIAS)                 | 0.5         | < 0.05 ± 12% | mg/L                 |
| Carbono orgánico total            | MAD-G-PE-0190 (Combustión-NDIR)             |             | < 1.0 ± 18%  | mg/L                 |
| Cianuros totales                  | MAD-E-PE-014 (UV/VIS-FIAS)                  | 50          | < 15 ± 12%   | µg/L                 |
| Cloro residual combinado          | MAD-E-PE-0188 (UV/VIS)                      |             | < 0.10 ± 13% | mg/L                 |
| Cloro residual libre              | MAD-E-PE-0188 (UV/VIS)                      |             | 0.93 ± 9.4%  | mg/L                 |
| Dureza                            | MAD-E-PE-0255 (ICP-MS)                      |             | 32.5 ± 13%   | °F                   |
| Calcio                            | MAD-E-PE-0255 (ICP-MS)                      |             | 74 ± 9.5%    | mg/L                 |
| Magnesio                          | MAD-E-PE-0255 (ICP-MS)                      |             | 34 ± 9.5%    | mg/L                 |
| Indice de Langelier               | MAD-G-PE-0272 Indice de Langelier (Cálculo) |             | 0.75 ± 17%   | --                   |
| Bicarbonatos                      | MAD-G-PE-0121 (Volumetría)                  |             | 184 ± 13%    | mg/L                 |
| Carbonatos                        | MAD-G-PE-0121 (Volumetría)                  |             | < 3 ± 13%    | mg/L                 |
| Conductividad a 20°C              | MAD-G-PE-0042 Conductividad                 | 2500        | 1225 ± 6.5%  | µS/cm                |
| pH                                | MAD-G-PE-0024 pH                            | 6.5-9.5     | 8.2 ± 0.1    | U. pH.               |
| * Temperatura                     | MAD-G-PE-0258 (Termometría)                 |             | 23.4 ± 0.5°C | °C                   |
| Nitritos                          | IE-T/L-MAD-0276 (C. I.)                     | 0.1         | <0.02 ± 18%  | mg/L                 |
| Oxidabilidad                      | MAD-G-PE-0029 (Volumetría)                  | 5.0         | < 0.5 ± 12%  | mg O <sub>2</sub> /L |
| <b>Cationes Mayoritarios</b>      |                                             |             |              |                      |
| Sodio                             | MAD-E-PE-0255 (ICP-MS)                      | 200         | 95 ± 12%     | mg/L                 |
| <b>Aniones</b>                    |                                             |             |              |                      |
| Bromatos                          | IE-T/L-MAD-0276 (C. I.)                     | 10          | <3 ± 18%     | µg/L                 |
| Cloruros                          | IE-T/L-MAD-0276 (C. I.)                     | 250         | 214 ± 12%    | mg/L                 |
| Fluoruros                         | IE-T/L-MAD-0276 (C. I.)                     | 1.5         | < 0.3 ± 13%  | mg/L                 |
| Nitratos                          | IE-T/L-MAD-0276 (C. I.)                     | 50          | 5.0 ± 12%    | mg/L                 |
| Sulfatos                          | IE-T/L-MAD-0276 (C. I.)                     | 250         | 186 ± 12%    | mg/L                 |
| <b>Metales</b>                    |                                             |             |              |                      |
| Aluminio                          | MAD-E-PE-0255 (ICP-MS)                      | 200         | 40 ± 16%     | µg/L                 |

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|-------------------------------------------------|------------------------------|-------------|---------------|----------|
| Antimonio                                       | MAD-E-PE-0255 (ICP-MS)       | 5           | < 1.5 ± 15%   | µg/L     |
| Arsenico                                        | MAD-E-PE-0255 (ICP-MS)       | 10          | < 2 ± 13%     | µg/L     |
| Boro                                            | MAD-E-PE-0255 (ICP-MS)       | 1           | 0.25 ± 14%    | mg/L     |
| Cadmio                                          | MAD-E-PE-0255 (ICP-MS)       | 5.0         | < 1.0 ± 13%   | µg/L     |
| Cobre                                           | MAD-E-PE-0255 (ICP-MS)       | 2.0         | < 0.002 ± 13% | mg/L     |
| Cromo                                           | MAD-E-PE-0255 (ICP-MS)       | 50          | < 2 ± 13%     | µg/L     |
| Hierro                                          | MAD-E-PE-0255 (ICP-MS)       | 200         | < 5 ± 12%     | µg/L     |
| Manganeso                                       | MAD-E-PE-0255 (ICP-MS)       | 50          | < 2 ± 13%     | µg/L     |
| Mercurio                                        | MAD-E-PE-0255 (ICP-MS)       | 1.0         | < 0.2 ± 17%   | µg/L     |
| Niquel                                          | MAD-E-PE-0255 (ICP-MS)       | 20          | < 2 ± 14%     | µg/L     |
| Plomo                                           | MAD-E-PE-0255 (ICP-MS)       | 10          | < 1 ± 14%     | µg/L     |
| Selenio                                         | MAD-E-PE-0255 (ICP-MS)       | 10          | < 2 ± 15%     | µg/L     |
| <b>Compuestos orgánicos volátiles</b>           |                              |             |               |          |
| 1,2-Dicloroetano                                | MAD-C-PE-0263 GC/P&T/MS      | 3           | < 0.5 ± 25%   | µg/L     |
| Suma de Tricloroetano y Tetracloroetano         | MAD-C-PE-0263 GC/P&T/MS      | 10          | < 0.5         | µg/L     |
| Tetracloroetano                                 | MAD-C-PE-0263 GC/P&T/MS      |             | < 0.5 ± 25%   | µg/L     |
| Tricloroetano                                   | MAD-C-PE-0263 GC/P&T/MS      |             | < 0.5 ± 25%   | µg/L     |
| <b>Trihalometanos</b>                           |                              |             |               |          |
| Suma de Trihalometanos                          | MAD-C-PE-0263 GC/P&T/MS      | 100         | 46.8          | µg/L     |
| Bromodiclorometano                              | MAD-C-PE-0263 GC/P&T/MS      |             | 5.8 ± 19%     | µg/L     |
| Bromoformo                                      | MAD-C-PE-0263 GC/P&T/MS      |             | 23.2 ± 19%    | µg/L     |
| Cloroformo                                      | MAD-C-PE-0263 GC/P&T/MS      |             | 1.3 ± 19%     | µg/L     |
| Dibromoclorometano                              | MAD-C-PE-0263 GC/P&T/MS      |             | 16.5 ± 19%    | µg/L     |
| <b>BTEXs</b>                                    |                              |             |               |          |
| Benceno                                         | MAD-C-PE-0263 GC/P&T/MS      | 1           | < 0.3 ± 27%   | µg/L     |
| <b>Hidrocarburos aromaticos policiclicos</b>    |                              |             |               |          |
| Benzo-a-pireno                                  | IE-T/L-MAD-0274 (SBPE-CG/MS) | 0.01        | < 0.003 ± 25% | µg/L     |
| Suma de 4 Hidrocarburos Aromáticos Policiclicos | IE-T/L-MAD-0274 (SBPE-CG/MS) | 0.1         | < 0.020       | µg/L     |
| Benzo-(g,h,i)-perileno                          | IE-T/L-MAD-0274 (SBPE-CG/MS) |             | < 0.009 ± 24% | µg/L     |
| Benzo-b-fluoranteno                             | IE-T/L-MAD-0274 (SBPE-CG/MS) |             | < 0.009 ± 24% | µg/L     |
| Benzo-k-fluoranteno                             | IE-T/L-MAD-0274 (SBPE-CG/MS) |             | < 0.009 ± 24% | µg/L     |
| Indeno-(1,2,3-c,d)-pireno                       | IE-T/L-MAD-0274 (SBPE-CG/MS) |             | < 0.009 ± 25% | µg/L     |
| <b>Plaguicidas</b>                              |                              |             |               |          |
| Suma de plaguicidas                             | IE-T/L-MAD-0274 (SBPE-CG/MS) | 0.5         | < 0.30        | µg/L     |
| Alaclor                                         | IE-T/L-MAD-0274 (SBPE-CG/MS) | 0.1         | < 0.009 ± 28% | µg/L     |
| Aldrin                                          | IE-T/L-MAD-0274 (SBPE-CG/MS) | 0.03        | < 0.009 ± 26% | µg/L     |
| Atrazina                                        | MAD-C-PE-0264 (HPLC/MS/MS)   | 0.1         | < 0.01 ± 25%  | µg/L     |
| Azoxistrobina                                   | MAD-C-PE-0264 (HPLC/MS/MS)   | 0.1         | < 0.01 ± 26%  | µg/L     |
| b-HCH                                           | IE-T/L-MAD-0274 (SBPE-CG/MS) | 0.1         | < 0.009 ± 28% | µg/L     |
| Benalaxil                                       | MAD-C-PE-0264 (HPLC/MS/MS)   | 0.1         | < 0.01 ± 26%  | µg/L     |
| Bromacilo                                       | MAD-C-PE-0264 (HPLC/MS/MS)   | 0.1         | < 0.01 ± 25%  | µg/L     |
| Carbendazim                                     | MAD-C-PE-0264 (HPLC/MS/MS)   | 0.1         | < 0.01 ± 25%  | µg/L     |
| Cipermetrinás Mezcla de Isómeros                | IE-T/L-MAD-0274 (SBPE-CG/MS) | 0.1         | < 0.036 ± 25% | µg/L     |
| Ciproconazol                                    | MAD-C-PE-0264 (HPLC/MS/MS)   | 0.1         | < 0.01 ± 25%  | µg/L     |

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|------------------------------------------|--------------------------------------------------------------------|-------------|---------------|---------------|
| Clorfenvinfos                            | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.1         | < 0.009 ± 28% | µg/L          |
| Clorpirifós                              | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.1         | < 0.009 ± 28% | µg/L          |
| Clorprofam                               | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.05 ± 25%  | µg/L          |
| Clortoluron                              | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Desetil-Terbumetón                       | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Desetil-Terbutilazina                    | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Desetilatrazina                          | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Desisopropil-Atrazina (desetil-simazina) | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.05 ± 25%  | µg/L          |
| Dieldrín                                 | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.03        | < 0.009 ± 26% | µg/L          |
| Dimetoato                                | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Dimetomorf                               | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Diuron                                   | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Etoprophos                               | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Fenitrotión                              | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.1         | < 0.009 ± 24% | µg/L          |
| Fipronil                                 | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.05 ± 25%  | µg/L          |
| Heptaclor                                | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.03        | < 0.009 ± 26% | µg/L          |
| Heptaclor epóxido                        | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.03        | < 0.009 ± 26% | µg/L          |
| Imazalil                                 | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Imidacloprid                             | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Isoproturon                              | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Lambda-cihalotrin                        | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.1         | < 0.009 ± 24% | µg/L          |
| Lindano                                  | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.1         | < 0.009 ± 27% | µg/L          |
| Linuron                                  | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Metalaxil                                | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Metolaclor                               | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Miclobutanilo                            | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Ometoato                                 | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Permetrina                               | IE-T/L-MAD-0274 (SBPE-CG/MS)                                       | 0.1         | < 0.009 ± 24% | µg/L          |
| Pirifeno                                 | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Simazina                                 | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Tebuconazol                              | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Terbumeton                               | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Terbutilazina                            | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 25%  | µg/L          |
| Tetraconazol                             | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| Tiabendazol                              | MAD-C-PE-0264 (HPLC/MS/MS)                                         | 0.1         | < 0.01 ± 26%  | µg/L          |
| <b>Cianotoxinas</b>                      |                                                                    |             |               |               |
| Suma de microcistinas                    | MAD-C-PE-0265 (HPLC/MS/MS)                                         | 1           | < 0.50        | µg/L          |
| Microcistina-LA                          | MAD-C-PE-0265 (HPLC/MS/MS)                                         |             | < 0.25 ± 19%  | µg/L          |
| Microcistina-LR                          | MAD-C-PE-0265 (HPLC/MS/MS)                                         |             | < 0.25 ± 18%  | µg/L          |
| Microcistina-RR                          | MAD-C-PE-0265 (HPLC/MS/MS)                                         |             | < 0.25 ± 19%  | µg/L          |
| Microcistina-YR                          | MAD-C-PE-0265 (HPLC/MS/MS)                                         |             | < 0.25 ± 20%  | µg/L          |
| <b>Caracteres microbiológicos</b>        |                                                                    |             |               |               |
| Bacterias coliformes                     | UNE-EN-ISO 9308:1(2014) Filtración de membrana                     | 0           | 0             | u.f.c./100 mL |
| <i>Clostridium perfringens</i>           | UNE-EN ISO 14189 (Células vegetativas y esporas) (Filtr. Membrana) | 0           | 0             | u.f.c./100 mL |
| Enterococos                              | UNE-EN ISO 7899-2 (Filtración sobre membrana)                      | 0           | 0             | u.f.c./100 mL |

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|---------------------------------|----------------------------------------------------------------------------------|-------------|------------|---------------|
| <i>Escherichia coli</i>         | UNE-EN-ISO 9308:1(2014) Filtración de membrana                                   | 0           | 0          | u.f.c./100 mL |
| Microorganismos aerobios a 22°C | UNE-EN-ISO 6222:1999 (Siembra Masa: Agar Extracto Levadura. 22°C/72h - 36°C/48h) |             | 0          | u.f.c./mL     |

**OBSERVACIONES**

Resultados en microbiología: de 1 a 2 ufc se interpreta como organismo presente y de 3 a 9 ufc como recuento estimado..

# Los apartados señalados con el símbolo # corresponde a información suministrada por el cliente, el laboratorio no se hace responsable de dicha información. Este informe sólo afecta a la muestra analizada tal como se recibió y sólo podrá reproducirse parcialmente con la autorización por escrito del laboratorio.

El laboratorio dispone de la incertidumbre de sus medidas a disposición del cliente.

Aprobado en Interlab Madrid por Técnico Superior: Esther Sesmilo Carrasco, Director Técnico: Esther Sesmilo Carrasco.

Documento firmado electrónicamente en su formato digital. Autenticidad verificable utilizando el certificado raíz de la Fábrica Nacional de Moneda y Timbre.

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