

# Test performance of Ennopure Activated Carbon Fiber (ACF) filter: Ennopure Water Bottle version

| Test Point | Test item(s)  | Unit(s) | Test method(s)                | Test Result(s)        |                          | *Removal Rate (%) |
|------------|---------------|---------|-------------------------------|-----------------------|--------------------------|-------------------|
|            |               |         |                               | Influent spiked water | Effluent filtrated water |                   |
| Start-up   | COD(Mn)       | mg/L    | GB/T 5750.7-2023              | 15.7                  | 2.30                     | 85.4              |
| Start-up   | Tetracycline  | mg/L    | SGS Inhouse Method HPLC MS/MS | 1.442                 | 0.031                    | 97.8              |
| Start-up   | PFOA          | mg/L    | SGS Inhouse Method HPLC MS/MS | 0.61                  | <0.01                    | >98.3             |
| Start-up   | PFOS          | mg/L    | SGS Inhouse Method HPLC MS/MS | 2.19                  | <0.01                    | >99.5             |
| Start-up   | Free Chlorine | mg/L    | GB/T 5750.11-2023             | 2.05                  | <0.02                    | >99.0             |
| 20 L (10%) | Free Chlorine | mg/L    | GB/T 5750.11-2023             | 2.00                  | <0.02                    | >99.0             |
| 40 L (20%) | Free Chlorine | mg/L    | GB/T 5750.11-2023             | 2.05                  | <0.02                    | >99.0             |
| 60 L (30%) | Free Chlorine | mg/L    | GB/T 5750.11-2023             | 2.00                  | <0.02                    | >99.0             |

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|--------------|---------------|---------|-------------------|-----------------------|--------------------------|-------------------|
|              |               |         |                   | Influent spiked water | Effluent filtrated water |                   |
| 80 L (40%)   | Free Chlorine | mg/L    | GB/T 5750.11-2023 | 2.00                  | <0.02                    | >99.0             |
| 100 L (50%)  | Free Chlorine | mg/L    | GB/T 5750.11-2023 | 2.00                  | 0.02                     | 99.0              |
| 120 L (60%)  | Free Chlorine | mg/L    | GB/T 5750.11-2023 | 2.00                  | 0.02                     | 99.0              |
| 140 L (70%)  | Free Chlorine | mg/L    | GB/T 5750.11-2023 | 2.00                  | 0.02                     | 99.0              |
| 160 L (80%)  | Free Chlorine | mg/L    | GB/T 5750.11-2023 | 2.00                  | 0.02                     | 99.0              |
| 180 L (90%)  | Free Chlorine | mg/L    | GB/T 5750.11-2023 | 2.05                  | 0.03                     | 98.5              |
| 200 L (100%) | Free Chlorine | mg/L    | GB/T 5750.11-2023 | 2.05                  | 0.03                     | 98.5              |



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| Test Point   | Test item(s)  | Unit(s) | Test method(s)          | Test Result(s)        |                           |                           | *Removal Rate1 (%) | *Removal Rate2 (%) |
|--------------|---------------|---------|-------------------------|-----------------------|---------------------------|---------------------------|--------------------|--------------------|
|              |               |         |                         | Influent spiked water | Effluent filtrated water1 | Effluent filtrated water2 |                    |                    |
| Start-up     | Lead (pH 6.5) | µg/L    | GB/T 5750.6-2023 ICP-MS | 161.7                 | 2.5                       | 3.8                       | 98.5               | 98.5               |
| 50 L (25%)   | Lead (pH 6.5) | µg/L    | GB/T 5750.6-2023 ICP-MS | 158.3                 | 1.7                       | 2.2                       | 98.9               | 98.9               |
| 100 L (50%)  | Lead (pH 6.5) | µg/L    | GB/T 5750.6-2023 ICP-MS | 98.8                  | 1.9                       | 1.9                       | 98.1               | 98.2               |
| 150 L (75%)  | Lead (pH 6.5) | µg/L    | GB/T 5750.6-2023 ICP-MS | 160.6                 | 2.8                       | 4.6                       | 98.3               | 98.3               |
| 200 L (100%) | Lead (pH 6.5) | µg/L    | GB/T 5750.6-2023 ICP-MS | 142.2                 | 3.3                       | 4.5                       | 97.7               | 97.7               |
| 240 L (120%) | Lead (pH 6.5) | µg/L    | GB/T 5750.6-2023 ICP-MS | 141.3                 | 1.8                       | 3.7                       | 98.7               | 98.7               |

| Test Point   | Test item(s)  | Unit(s) | Test method(s)         | Test Result(s)        |                           |                           | *Removal Rate1 (%) | *Removal Rate2 (%) |
|--------------|---------------|---------|------------------------|-----------------------|---------------------------|---------------------------|--------------------|--------------------|
|              |               |         |                        | Influent spiked water | Effluent filtrated water1 | Effluent filtrated water2 |                    |                    |
| Start-up     | Lead (pH 8.5) | µg/L    | EPA 200.8-revision 5.4 | 181                   | 5                         | 4                         | 97.2               | 97.8               |
| 50 L (25%)   | Lead (pH 8.5) | µg/L    | EPA 200.8-revision 5.4 | 156                   | 3                         | 3                         | 98.1               | 98.1               |
| 100 L (50%)  | Lead (pH 8.5) | µg/L    | EPA 200.8-revision 5.4 | 160                   | 3                         | 3                         | 98.1               | 98.1               |
| 150 L (75%)  | Lead (pH 8.5) | µg/L    | EPA 200.8-revision 5.4 | 158                   | 2                         | 2                         | 98.7               | 98.7               |
| 200 L (100%) | Lead (pH 8.5) | µg/L    | EPA 200.8-revision 5.4 | 155                   | 2                         | 2                         | 98.7               | 98.7               |
| 240 L (120%) | Lead (pH 8.5) | µg/L    | EPA 200.8-revision 5.4 | 155                   | 2                         | 2                         | 98.7               | 98.7               |

**Remark:**

- 1.\*Removal Rate (%) = (The test result of Influent water - The test result of Effluent water) / The test result of Influent water x100%
- 2.Flow rate: 0.5L/min.
- 3.Total purified water capacity: 200 L.
- 4.The result of COD(Mn) test item equals to Permanganate index (O<sub>2</sub>) test item.

