Figure S1. Photographs of culture plates of the original solution and bacterial solution treated with different concentrations of antibiotics. (A) *S. aureus* + vancomycin, (B) *S. aureus* + erythromycin, (C) *S. epidermidis* + vancomycin, (D) *S. epidermidis* + erythromycin, (E) *K. pneumoniae* + tobramycin.
Figure S2. SEM images of *S. aureus* after 24 h of treatment with vancomycin.
Figure S3. Mass spectra of *S. aureus* obtained from pure solution (top) and enriched by Fc-MBL@Fe3O4 from different concentrations of antibiotic solutions. (A) *S. aureus* + vancomycin, (B) *S. aureus* + erythromycin.
Figure S4. Mass spectra of *S. epidermidis* obtained from pure solution (top) and enriched by Fe-MBL@Fe3O4 from different concentrations of antibiotic solutions. (A) *S. epidermidis* + vancomycin, (B) *S. epidermidis* + erythromycin.
Figure S5. Mass spectra of *K. pneumoniae* obtained from pure solution (top) and enriched by Fe-MBL@Fe3O4 from different concentrations of tobramycin solution.
Table S1. Enrichment efficiency of Fc-MBL@Fe3O4 in aqueous humor

| Dilution | The original bacterial solution (CFU) | Bacteria enriched Fc-MBL@Fe3O4 (CFU) | Supernatant (CFU) | The capture efficiency (%) | Mean ± standard deviation |
|----------|---------------------------------------|---------------------------------------|-------------------|---------------------------|--------------------------|
| S. aureus  | 10^{-3} | 8500* | 8343* | 157 | 98.2% | 99.1±0.8 |
|           |         | 8500* | 8467* | 33  | 99.6% | |
|           |         | 8500* | 8449* | 51  | 99.4% | |
|           | 10^{-4} | 850*  | 829*  | 21  | 97.5% | 97.8±0.4 |
|           |         | 850*  | 830*  | 20  | 97.6% | |
|           |         | 850*  | 835*  | 15  | 98.2% | |
|           | 10^{-5} | 71    | 119   | 4   | 96.7% | 98.1±1.6 |
|           |         | 78    | 89    | 2   | 97.8% | |
|           |         | 107   | 149   | 0   | 99.9% | |
| S. epidermidis  | 10^{-3} | 1570* | 1564* | 6   | 99.6% | 99.5±0.2 |
|               |         | 1570* | 1559* | 11  | 99.3% | |
|               |         | 1570* | 1566* | 4   | 99.7% | |
|               | 10^{-4} | 134   | 258   | 2   | 99.2% | 99.3±0.6 |
|               |         | 226   | 249   | 3   | 98.8% | |
|               |         | 112   | 148   | 0   | 99.9% | |
|               | 10^{-5} | 20    | 19    | 1   | 95%  | 98.3±2.8 |
|               |         | 15    | 20    | 0   | 99.9% | |
|               |         | 29    | 18    | 0   | 99.9% | |
| K. pneumoniae  | 10^{-3} | 1380* | 1352* | 28  | 98.0% | 96.4±1.8 |
|                |         | 1380* | 1336* | 44  | 96.8% | |
|                |         | 1380* | 1304* | 76  | 94.5% | |
|                | 10^{-4} | 165   | 161   | 23  | 87.5% | 87.5±5.0 |
|                |         | 39    | 123   | 10  | 92.5% | |
|                |         | 209   | 71    | 15  | 82.6% | |
|                | 10^{-5} | 5     | 8     | 0   | 99.9% | 95.2±4.1 |
|                |         | 11    | 14    | 1   | 93.3% | |
|                |         | 11    | 24    | 2   | 92.3% | |

* : Too many colonies to count. Estimated by diluted sample and dilution ratio

The capture efficiency (%) = Bacteria enriched Fc-MBL@Fe3O4/ (Bacteria enriched Fc-MBL@Fe3O4 + Supernatant)
Table S2. Scores of MALDI-TOF MS analysis of different numbers of *S. aureus*.

| Number of bacteria (CFU) | Enrichment with Fc-MBL@Fe3O4 | Centrifugation enrichment |
|-------------------------|-------------------------------|---------------------------|
|                         | Five parallel | Group 1 | Group 2 | Group 3 | Five parallel | Group 1 | Group 2 | Group 3 |
| 1.76×10^7               |                |           |           |         |                |           |           |         |
| 1                       | 2.37           | 2.36      | 2.39      | 1       | 2.42           | 2.4       | 2.32      |
| 2                       | 2.3            | 2.3       | 2.44      | 2       | 2.38           | 2.39      | 2.43      |
| 3                       | 2.38           | 2.39      | 2.43      | 3       | 2.42           | 2.45      | 2.32      |
| 4                       | 2.39           | 2.44      | 2.43      | 4       | 2.34           | 2.43      | 2.3       |
| 5                       | 2.36           | 2.44      | 2.35      | 5       | 2.47           | 2.35      | 2.46      |
| 8.80×10^8               |                |           |           |         |                |           |           |         |
| 1                       | 2.46           | 2.38      | 2.35      | 1       | 2.47           | 2.4       | 2.41      |
| 2                       | 2.4            | 2.34      | 2.42      | 2       | 2.47           | 2.41      | 2.4       |
| 3                       | 2.4            | 2.45      | 2.49      | 3       | 2.45           | 2.37      | 2.45      |
| 4                       | 2.4            | 2.35      | 2.41      | 4       | 2.36           | 2.38      | 2.35      |
| 5                       | 2.36           | 2.33      | 2.27      | 5       | 2.43           | 2.43      | 2.45      |
| 4.40×10^8               |                |           |           |         |                |           |           |         |
| 1                       | 2.48           | 2.5       | 2.4       | 1       | 1.14           | 2.2       | 1.13      |
| 2                       | 2.52           | 2.51      | 2.46      | 2       | 1.47           | 1.14      | 1.8       |
| 3                       | 2.46           | 2.47      | 2.49      | 3       | 1.53           | 1.28      | 1.14      |
| 4                       | 2.48           | 2.46      | 2.46      | 4       | 1.65           | 1.82      | 1.42      |
| 5                       | 2.35           | 2.41      | 2.44      | 5       | 1.56           | 1.25      | 1.33      |
| 2.20×10^8               |                |           |           |         |                |           |           |         |
| 1                       | 2.28           | 1.94      | 1.46      | 1       | 1.22           | 1.2       | 1.4       |
| 2                       | 2.1            | 2.25      | 2.24      | 2       | 1.34           | 1.3       | 1.22      |
| 3                       | 1.5            | 1.47      | 2.18      | 3       | 1.37           | 1.23      | 1.34      |
| 4                       | 1.39           | 2.21      | 2.21      | 4       | 1.35           | 1.27      | 1.36      |
| 5                       | 2.16           | 1.87      | 1.81      | 5       | 1.34           | 1.34      | 1.38      |
| 1.10×10^8               |                |           |           |         |                |           |           |         |
| 1                       | 1.34           | 1.4       | 1.29      | 1       | 1.45           | 1.27      | 1.31      |
| 2                       | 1.4            | 1.32      | 1.36      | 2       | 1.51           | 1.25      | 1.32      |
| 3                       | 1.45           | 1.33      | 1.39      | 3       | 1.32           | 1.23      | 1.51      |
| 4                       | 1.55           | 1.45      | 1.47      | 4       | 1.42           | 1.26      | 1.37      |
| 5                       | 1.62           | 1.69      | 1.62      | 5       | 1.43           | 1.26      | 1.39      |

Scores of standard *S. aureus*: 2.5, 2.6, 2.5, 2.6, 2.6

"Standard *S. aureus*” refers to colonies smeared directly on the target plate for identification by mass spectrometry.

A score >2.0 is considered reliable in the species level, a score 1.7–2.0 indicates identification in the genus level, and a score <1.7 indicates unreliable result.
| Number of bacteria (CFU) | Enrichment with Fc-MBL@Fe3O4 | Centrifugation enrichment |
|-------------------------|-------------------------------|----------------------------|
|                         | Five parallel | Group1 | Group2 | Group3 | Five parallel | Group1 | Group2 | Group3 |
| 1.19×10⁷                |                |       |       |       |                |       |       |       |
| 1                       | 2.06           | 2.36  | 2.52  | 1      | 2.28          | 2.11  | 2.39  |       |
| 2                       | 2.3            | 2.36  | 2.49  | 2      | 2.5           | 2.53  | 2.49  |       |
| 3                       | 2.09           | 2.32  | 2.39  | 3      | 2.27          | 2.24  | 2.27  |       |
| 4                       | 2.28           | 2.37  | 2.41  | 4      | 2.55          | 2.51  | 2.43  |       |
| 5                       | 2.32           | 2.59  | 2.41  | 5      | 2.37          | 2.31  | 2.41  |       |
| 5.95×10⁶                |                |       |       |       |                |       |       |       |
| 1                       | 2.5            | 2.46  | 2.43  | 1      | 2.43          | 2.38  | 1.94  |       |
| 2                       | 2.37           | 2.41  | 2.44  | 2      | 2.04          | 2.11  | 1.93  |       |
| 3                       | 2.32           | 2.43  | 2.39  | 3      | 2.36          | 2.31  | 1.85  |       |
| 4                       | 2.25           | 2.38  | 2.39  | 4      | 2.49          | 1.95  | 1.8   |       |
| 5                       | 2.16           | 2.46  | 2.32  | 5      | 2.22          | 1.98  | 2     |       |
| 2.98×10⁶                |                |       |       |       |                |       |       |       |
| 1                       | 2.42           | 2.37  | 2.33  | 1      | 1.37          | 1.17  | 1.3   |       |
| 2                       | 2.41           | 2.39  | 2.37  | 2      | 1.33          | 1.56  | 1.34  |       |
| 3                       | 2.36           | 2.4   | 2.38  | 3      | 1.34          | 1.3   | 1.34  |       |
| 4                       | 2.39           | 2.44  | 2.43  | 4      | 1.34          | 1.43  | 1.33  |       |
| 5                       | 2.31           | 2.41  | 2.48  | 5      | 1.3           | 1.34  | 1.37  |       |
| 1.49×10⁶                |                |       |       |       |                |       |       |       |
| 1                       | 1.22           | 2.2   | 2.26  | 1      | 1.36          | 1.39  | 1.25  |       |
| 2                       | 1.53           | 1.36  | 1.22  | 2      | 1.41          | 1.27  | 1.47  |       |
| 3                       | 1.42           | 2.13  | 1.19  | 3      | 1.25          | 1.47  | 1.12  |       |
| 4                       | 1.19           | 2.25  | 2.18  | 4      | 1.45          | 1.33  | 1.29  |       |
| 5                       | 1.78           | 1.51  | 1.36  | 5      | 1.36          | 1.36  | 1.29  |       |
| 7.44×10⁵                |                |       |       |       |                |       |       |       |
| 1                       | 1.36           | 1.4   | 1.17  | 1      | 1.05          | 1.21  | 1.27  |       |
| 2                       | 1.17           | 1.33  | 1.23  | 2      | 1.4           | 1.12  | 1.43  |       |
| 3                       | 1.19           | 1.34  | 1.34  | 3      | 1.3           | 1.33  | 1.45  |       |
| 4                       | 1.35           | 1.14  | 1.23  | 4      | 1.23          | 1.25  | 1.37  |       |
| 5                       | 1.43           | 1.49  | 1.2   | 5      | 1.37          | 1.27  | 1.49  |       |

Scores of standard *S. epidermidis*: 2.6, 2.4, 2.5, 2.6, 2.6

“Standard *S. epidermidis*” refers to colonies smeared directly on the target plate for identification by mass spectrometry.

A score >2.0 is considered reliable in the species level, a score 1.7–2.0 indicates identification in the genus level, and a score <1.7 indicates unreliable result.
## Table S4. Scores of MALDI-TOF MS analysis of different numbers of *K. pneumoniae*.

| Number of bacteria (CFU) | Enrichment with Fe-MBL@Fe3O4 | Centrifugation enrichment |
|-------------------------|-----------------------------|----------------------------|
|                         | Five parallel               | Group1 | Group2 | Group3 | Five parallel | Group1 | Group2 | Group3 |
| 1.43×10⁷                | 1                           | 2.41   | 2.46   | 2.39   | 1             | 2.37   | 2.2    | 2.22   |
|                         | 2                           | 2.4    | 2.32   | 2.4    | 2             | 2.39   | 2.31   | 2.22   |
|                         | 3                           | 2.42   | 2.26   | 2.33   | 3             | 2.37   | 2.27   | 2.33   |
|                         | 4                           | 2.42   | 2.44   | 2.42   | 4             | 2.38   | 2.25   | 2.31   |
|                         | 5                           | 2.41   | 2.41   | 2.37   | 5             | 2.34   | 2.24   | 2.29   |
| 7.15×10⁶                | 1                           | 2.28   | 2.26   | 1.78   | 1             | 2.33   | 2.34   | 2.23   |
|                         | 2                           | 2.25   | 2.14   | 1.92   | 2             | 2.4    | 2.39   | 2.3    |
|                         | 3                           | 2.38   | 2.18   | 1.89   | 3             | 2.32   | 2.26   | 2.24   |
|                         | 4                           | 2.35   | 2.28   | 2.24   | 4             | 2.32   | 2.19   | 2.17   |
|                         | 5                           | 2.43   | 2.11   | 2.25   | 5             | 2.08   | 2.02   | 2.03   |
| 3.57×10⁶                | 1                           | 2.31   | 2.06   | 2.29   | 1             | 1.8    | 1.34   | 1.34   |
|                         | 2                           | 2.24   | 2.13   | 2.04   | 2             | 1.25   | 1.46   | 1.54   |
|                         | 3                           | 2.11   | 2.08   | 1.89   | 3             | 1.37   | 1.37   | 1.43   |
|                         | 4                           | 1.76   | 1.81   | 1.9    | 4             | 1.54   | 1.37   | 1.25   |
|                         | 5                           | 1.79   | 1.87   | 1.9    | 5             | 1.67   | 1.47   | 1.62   |
| 1.78×10⁶                | 1                           | 2.18   | 2.13   | 1.73   | 1             | 1.4    | 1.06   | 1.4    |
|                         | 2                           | 2.23   | 2.2    | 2.24   | 2             | 1.24   | 1.27   | 1.17   |
|                         | 3                           | 2.35   | 2.25   | 1.2    | 3             | 1.35   | 1.19   | 1.21   |
|                         | 4                           | 2.34   | 2.27   | 1.48   | 4             | 1.42   | 1.25   | 1.24   |
|                         | 5                           | 2.26   | 2.21   | 2.27   | 5             | 1.45   | 1.34   | 1.27   |
| 8.94×10⁵                | 1                           | 1.34   | 1.31   | 1.15   | 1             | 1.17   | 1.14   | 1.07   |
|                         | 2                           | 1.42   | 1.49   | 1.34   | 2             | 1.12   | 1.15   | 1.14   |
|                         | 3                           | 1.42   | 1.25   | 1.42   | 3             | 1.15   | 1.16   | 1.19   |
|                         | 4                           | 1.36   | 1.34   | 1.54   | 4             | 1.18   | 1.21   | 1.25   |
|                         | 5                           | 1.57   | 1.38   | 1.39   | 5             | 1.15   | 1.21   | 1.21   |

Scores of standard *K. pneumoniae*: 2.5, 2.4, 2.4, 2.5, 2.5

“Standard *K. pneumoniae*” refers to colonies smeared directly on the target plate for identification by mass spectrometry.

A score >2.0 is considered reliable in the species level, a score 1.7–2.0 indicates identification in the genus level, and a score <1.7 indicates unreliable result.
|                  | Erythromycin | Vancomycin |          |          |          |          |          |          |          |          |
|------------------|--------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | Concentration| Score      | Concentration| Score      |          |          |          |          |          |          |
| **Staphylococcus aureus** |              |            | 8 µg/ml  | 1.91      | 1.79      | 1.75      | 1.75      |          |          |          |
| 16 µg/ml         | 1.36         | 2.2        | 2.1      | 1.5       | 2.0      |          |          |          |          |          |
| 32 µg/ml         | 2.2          | 1.25       | 1.31     | 2.0       | 2.1      |          |          |          |          |          |
| 64 µg/ml         | 2.2          | 1.87       | 2.1      | 2.0       | 1.83     |          |          |          |          |          |
| **Staphylococcus epidermidis** |          |            | 8 µg/ml  | 1.75      | 1.68      | 1.73      | 1.8      | 2.0      |          |          |
| 8 µg/ml          | 1.75         | 1.68       | 1.73     | 1.8       | 2.0      |          |          |          |          |          |
| 16 µg/ml         | 1.9          | 1.3        | 1.42     | 1.65      | 1.85     |          |          |          |          |          |
| 32 µg/ml         | 1.7          | 1.48       | 1.71     | 1.7       | 1.7      |          |          |          |          |          |
| **Klebsiella pneumoniae** |          |            | 8 µg/ml  | 1.75      | 1.68      | 1.73      | 1.8      | 2.0      |          |          |
| 7 µg/ml          | 2.3          | 2.5        | 2.4      | 2.2       | 2.4      |          |          |          |          |          |
| 14 µg/ml         | 2.4          | 2.2        | 2.3      | 2.5       | 2.3      |          |          |          |          |          |
| 28 µg/ml         | 2.4          | 2.3        | 2.2      | 2.2       | 2.3      |          |          |          |          |          |

A score >2.0 is considered reliable in the species level, a score 1.7–2.0 indicates identification in the genus level, and a score <1.7 indicates unreliable result.
Table S6. Scores of MALDI-TOF MS analysis of micro-LB broth for short-term incubation of bacteria.

|                  | Pre-incubation (CFU) | 5h Score | 6h Score | 7h Score | 8h Score |
|------------------|----------------------|----------|----------|----------|----------|
| **S. aureus +**   |                      |          |          |          |          |
| 10 µl LB         | 49                   | 1.22     | 1.28     | 1.31     | 1.33     | 1.45     | 2.1 | 2.4 | 2.4 | 2.2 | 2.2 |
|                  | 80                   | 2.3      | 1.53     | 2.0      | 1.36     | 1.7      | 2.4 | 2.4 | 2.5 | 2.4 | 2.5 |
|                  | 52                   | 1.67     | 2.02     | 1.94     | 1.34     | 2.3      | 2.11 | 2.29 | 2.32 | 2.3 | 2.34 |
| 20 µl LB         | 49                   | 2.3      | 2.4      | 1.78     | 2.3      | 2.3      | 2.3 | 2.4 | 2.3 | 2.3 | 2.4 |
|                  | 80                   | 2.4      | 2.3      | 2.4      | 2.4      | 2.4      | 2.4 | 2.4 | 2.4 | 2.3 | 2.3 |
|                  | 52                   | 2.24     | 1.8      | 2.28     | 2.27     | 2.34     | 2.27 | 2.08 | 2.06 | 2.01 | 1.80 |
| 30 µl LB         | 49                   | 1.31     | 1.05     | 1.22     | 1.39     | 1.53     | 2.4 | 2.4 | 2.5 | 2.5 | 2.4 |
|                  | 80                   | 2.3      | 2.4      | 2.5      | 2.4      | 2.4      | 2.3 | 2.2 | 2.5 | 2.3 | 2.4 |
|                  | 52                   | 2.23     | 2.25     | 1.20     | 1.23     | 1.23     | 2.34 | 2.19 | 1.88 | 1.99 | 2.19 |
| **K. pneumoniae +**|                    |          |          |          |          |          |
| 10 µl LB         | 21                   | 1.17     | 1.19     | 1.22     | 1.22     | 1.16     | 2.4 | 1.9 | 1.86 | 2.1 | 1.71 |
|                  | 34                   | 1.17     | 1.72     | 1.50     | 2.2      | 2        | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
|                  | 39                   | 1.19     | 1.69     | 1.36     | 1.39     | 1.58     | 2.37 | 2.42 | 2.43 | 2.43 | 2.54 |
| 20 µl LB         | 21                   | 1.83     | 1.5      | 1.82     | 1.14     | 1.65     | 2.1 | 2.1 | 2.2 | 2.3 | 2.1 |
|                  | 34                   | 1.3      | 1.22     | 1.25     | 1.28     | 1.42     | 2.5 | 2.5 | 2.4 | 2.5 | 2.4 |
|                  | 39                   | 1.34     | 2.25     | 1.36     | 1.47     | 1.48     | 2.41 | 2.41 | 2.42 | 2.46 | 2.48 |
| 30 µl LB         | 21                   | 1.86     | 1.17     | 1.22     | 1.31     | 1.34     | 2.3 | 2.3 | 2.3 | 2.2 | 2.5 |
|                  | 34                   | 1.36     | 1.38     | 1.39     | 1.39     | 1.25     | 2.1 | 2.1 | 2.3 | 2.3 | 2.4 |
|                  | 39                   | 1.12     | 1.22     | 1.25     | 1.31     | 1.33     | 1.76 | 2.34 | 2.35 | 2.43 | 2.53 |

Pre-incubation (CFU) | 7h Score | 8h Score |
|----------------------|----------|----------|
| **S. epidermidis +** |          |          |
| 10 µl LB             | 171      | 1.19     | 1.14     | 1.14     | 1.14     | 1.39     | 2 | 2.1 | 1.48 | 1.66 | 1.6 |
|                      | 216      | 1.6      | 1.25     | 1.31     | 1.36     | 1.39     | 2 | 1.56 | 2 | 1.79 | 1.67 |
|                      | 282      | 1.42     | 1.42     | 1.1      | n/a      | 1.67     | 1.85 | 2.0 | 1.39 | 1.9 | 1.65 |
| 20 µl LB             | 171      | 1.84     | 1.98     | 1.25     | 1.7      | 1.33     | 2 | 1.67 | 2.1 | 2.1 | 2.2 |
|                      | 216      | 1.2      | 1.19     | 1.26     | 1.26     | 1.34     | 2.1 | 2.1 | 2.2 | 2.1 | 2.2 |
|                      | 282      | 1.28     | 1.72     | 1.48     | 1.62     | n/a      | 2.17 | 2.17 | 2.18 | 2.23 | 2.25 |
| 30 µl LB             | 171      | 1.17     | 1.17     | 1.19     | 1.28     | 1.53     | 2.2 | 2.2 | 1.85 | 2.1 | 1.98 |
|                      | 216      | 2.1      | 1.6      | 1.34     | 2       | 1.62     | 2.2 | 2.3 | 2.1 | 2.2 | 2.2 |
|                      | 282      | 1.7      | 1.17     | n/a      | 1.36     | 1.45     | 1.79 | 2.16 | 2.26 | 1.88 | 2.28 |

*a* score $>2.0$ is considered reliable in the species level, a score $1.7$–$2.0$ indicates identification in the genus level, and a score $<1.7$ indicates unreliable result.; n/a = not applicable.
**Table S7. OD values for bacterial solutions containing different volumes of LB broth for 4 – 10 h.**

| Time | S. aureus | S. epidermidis | K. pneumoniae | Control group |
|------|-----------|---------------|---------------|---------------|
|      | 10 µl LB  | 20 µl LB      | 30 µl LB      | 10 µl LB      | 20 µl LB      | 30 µl LB      | 10 µl LB      | 20 µl LB      | 30 µl LB      |
| 4h   | Mean      | 0.023         | 0.027         | 0.017         | 0.000         | 0.007         | 0.010         | 0.017         | 0.020         | 0.023         | 0.037         | 0.047         |
|      | SD        | 0.006         | 0.006         | 0.006         | 0.000         | 0.012         | 0.000         | 0.012         | 0.000         | 0.006         | 0.006         | 0.012         |
|      | P         | 0.179         | 0.135         | 0.135         | 0.956         | 0.095         | 0.956         | 0.095         | 0.956         | 0.095         | 0.956         | 0.095         |
| 5h   | Mean      | 0.233         | 0.193         | 0.117         | 0.010         | 0.040         | 0.027         | 0.177         | 0.223         | 0.193         | 0.027         | 0.040         | 0.020         |
|      | SD        | 0.023         | 0.023         | 0.023         | 0.000         | 0.025         | 0.015         | 0.040         | 0.035         | 0.006         | 0.010         | 0.010         |
|      | P         | 0.028<sup>a</sup> | 0.162         | 0.141         | 0.099         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         |
| 6h   | Mean      | 1.237         | 0.903         | 0.643         | 0.010         | 0.037         | 0.050         | 0.770         | 0.917         | 0.847         | 0.020         | 0.020         | 0.020         |
|      | SD        | 0.049         | 0.065         | 0.042         | 0.000         | 0.023         | 0.026         | 0.030         | 0.025         | 0.076         | 0.010         | 0.010         | 0.000         |
|      | P         | 0.02<sup>b</sup> | 0.076         | 0.079         | 0.859         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         |
| 7h   | Mean      | 2.373         | 2.217         | 2.143         | 0.043         | 0.150         | 0.053         | 0.913         | 1.303         | 1.333         | 0.023         | 0.020         | 0.037         |
|      | SD        | 0.078         | 0.081         | 0.025         | 0.040         | 0.026         | 0.021         | 0.107         | 0.179         | 0.042         | 0.006         | 0.000         | 0.006         |
|      | P         | 0.036<sup>b</sup> | 0.059         | 0.061         | 0.087         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         |
| 8h   | Mean      | 3.210         | 3.383         | 3.550         | 0.543         | 0.737         | 0.569         | 1.737         | 2.380         | 2.327         | 0.033         | 0.047         | 0.027         |
|      | SD        | 0.026         | 0.164         | 0.070         | 0.064         | 0.029         | 0.078         | 0.101         | 0.182         | 0.021         | 0.015         | 0.006         | 0.006         |
|      | P         | 0.051         | 0.054         | 0.061         | 0.141         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         |
| 9h   | Mean      | 3.887         | 4.060         | 4.270         | 1.183         | 2.180         | 1.270         | 2.377         | 2.860         | 2.850         | 0.020         | 0.033         | 0.043         |
|      | SD        | 0.206         | 0.101         | 0.122         | 0.012         | 0.170         | 0.087         | 0.101         | 0.114         | 0.061         | 0.010         | 0.012         | 0.012         |
|      | P         | 0.079         | 0.054         | 0.063         | 0.122         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         |
| 10h  | Mean      | 4.327         | 5.060         | 5.073         | 2.527         | 3.613         | 3.680         | 2.447         | 3.283         | 3.380         | 0.033         | 0.053         | 0.053         |
|      | SD        | 0.216         | 0.066         | 0.055         | 0.185         | 0.103         | 0.208         | 0.042         | 0.112         | 0.095         | 0.006         | 0.012         | 0.012         |
|      | P         | 0.063         | 0.061         | 0.034<sup>b</sup> | 0.96         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         | 0.020         |

Based on data type and distribution, Kruskal-Wallis test was used to compare different volumes of LB broth.

a: (bacteria + 10µl aqueous humour + 10µl LB) VS (bacteria + 10µl aqueous humour + 20µl LB)
b: (bacteria + 10µl aqueous humour + 10µl LB) VS (bacteria + 10µl aqueous humour + 30µl LB)
c: (bacteria + 10µl aqueous humour + 20µl LB) VS (bacteria + 20µl aqueous humour + 30µl LB)