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Supplementary Table S1. cc32 isolates from the Spanish database included in the genomic investigation.

| Isolate | Year | Disease | Capsular Group | MLST | | Finetyping antigens | | | MenB vaccines antigens | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ST | CC | PorA_VR1 | PorA_VR2 | FetA_VR | FHbp peptide | NHBA peptide | NadA peptide |
| 22450 | 2017 | invasive | B | 34 | 32 | 19-1 | 15 | F5-1 | 1 | 707 | 1 |
| 22451 | 2017 | invasive | B | 34 | 32 | 19-1 | 15 | F5-1 | 1 | 707 | 1 |
| 22559 | 2017 | invasive | B | 34 | 32 | 19-1 | 15 | F5-1 | 1 | 707 | 1 |
| 22560 | 2017 | invasive | B | 34 | 32 | 19-1 | 15 | F5-1 | 1 | 707 | 1 |
| 22561 | 2017 | invasive | B | 34 | 32 | 19-1 | 15 | F5-1 | 1 | 707 | 1 |
| 22595 | 2017 | invasive | B | 34 | 32 | 19 | 15 | F5-1 | 1 | 3 | 1 |
| 22636 | 2017 | invasive | B | 34 | 32 | 19 | 15 | F1-24 | 1 | 3 | 211 |
| 22648 | 2018 | invasive | B | 749 | 32 | 19 | 15 | F5-1 | 61 | 120 | 1 |
| 22656 | 2018 | invasive | B | 33 | 32 | 19 | 15 | F1-80 | 145 | 3 | 1 |
| 22899 | 2018 | invasive | B | 33 | 32 | 19 | 15 | F5-1 | 1 | 3 | - |
| 22981 | 2018 | invasive | B | 34 | 32 | 19-7 | 15 | F1-24 | 1 | 3 | 1 |
| 23207 | 2019 | invasive | cnl | 15589 | 32 | 19 | 15 | F5-1 | 494 | 550 | 1 |
| 23260 | 2019 | invasive | B | 34 | 32 | 22 | 14-6 | F4-28 | 1 | 109 | 1 |
| 23270 | 2019 | invasive | B | 34 | 32 | 22 | 14-6 | F4-28 | 1 | 109 | 1 |
| 23312 | 2019 | invasive | B | 14872 | 32 | 19 | 15 | F5-1 | 1 | 120 | 3 |
| 23371 | 2019 | invasive | B | 33 | 32 | 19 | 15 | F5-1 | 1 | 3 | 1 |
| 23414 | 2019 | invasive | B | 33 | 32 | 19 | 15 | F5-1 | 1 | 3 | 1 |
| 23453 | 2020 | invasive | B | 33 | 32 | 19 | 15 | F5-1 | 16 | 3 | 1 |
| 23485 | 2020 | invasive | cnl | 34 | 32 | 19 | 15 | F5-1 | 1 | 3 | - |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23552 | 2020 | invasive | B | 33 | 32 | 19 | 15 | F5-1 | 1 | 3 | 1 |
| 23629 | 2020 | invasive | B | 7312 | 32 | 19-1 | 15 | F1-96 | 1108 | 194 | 215 |
| 23725 | 2021 | invasive | B | 34 | 32 | 19 | 15 | F5-1 | 1 | 3 | 1 |
| 23748 | 2021 | invasive | B | 34 | 32 | 19 | 15-23 | F5-1 | 1 | 1757 | 1 |
| 23795 | 2022 | STI | cnl | 34 | 32 | 19 | 15 | F5-1 | 1 | 20 | 1 |
| 23796 | 2022 | carrier | cnl | 34 | 32 | 19 | 15 | F5-1 | 1 | 20 | 1 |
| 23867 | 2022 | invasive | B | 34 | 32 | 19-1 | 15 | F5-1 | 1 | 707 | 1 |
| 23914 | 2022 | invasive | cnl | 15589 | 32 | 19 | 15-79 | F5-1 | 1 | 550 | 1 |
| 23936 | 2023 | invasive | B | 33 | 32 | 19 | 15-81 | F5-1 | 1 | 3 | 1 |
| 23949 | 2023 | carrier | B | 34 | 32 | 19 | 15 | F1-3 | - | 550 | 1 |
| 23970 | 2023 | carrier | cnl | 34 | 32 | 19 | 15 | F5-1 | 628 | 3 | 1 |
| 24069 | 2023 | invasive | cnl | 34 | 32 | 19 | 15 | F5-1 | 1 | 20 | 1 |
| 24150 | 2023 | invasive | B | 15589 | 32 | 19 | 15 | F5-1 | 1 | 1810 | 1 |
| 24272 | 2024 | invasive | B | 34 | 32 | 19-54 | 15 | F5-1 | 157 | 550 | 1 |
| 24297 | 2024 | invasive | B | 34 | 32 | 19-54 | 15 | F5-1 | 157 | 550 | 1 |
| 12218 | 2024 | invasive | B | 18211 | 32 | 19-54 | 15 | F5-1 | 1072 | 550 | 1 |

Labelled in red the 2 outbreak isolates

- No peptide because frameshift, internal stop codon.

Supplementary Table S2. PorA VR1: 19-54 isolates from the PubMLST database (accessed May 28, 2024).

| Isolate | Year | Disease | Capsular Group | MLST | | Finetyping antigens | | | MenB vaccines antigens | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ST | CC | PorA_VR1 | PorA_VR2 | FetA_VR | FHbp peptide | NHBA peptide | NadA peptide |
| MB35410 | 2017 | carrier | NG | 14678 | 41/44 | 19-54 | 15-21 | F1-6 | 62 | 1696 | - |
| MB65015 | 2018 | carrier | NG | 14678 | 41/44 | 19-54 | 15-21 | F1-6 | 62 | 1696 | - |
| H03-RESP-018 | 2023 | invasive | cnl | 34 | 32 | 19-54 | 15 | F5-1 | 218 | 550 | 1 |

- No peptide because frameshift, internal stop codon.