

Table S2. Characteristic of the *T. pyogenes* strains included in this study.

| No. | Strain | Host | Source | Year of isolation | Geographical origin |
|-----|--------|----------------|-------------------|-------------------|----------------------------|
| 1. | 1/B | cattle | mastitis | 2015 | Kuyavian-Pomeranian |
| 2. | 2/B | cattle | mastitis | 2015 | Kuyavian-Pomeranian |
| 3. | 5/B | cattle | lung abscess | 2015 | Kuyavian-Pomeranian |
| 4. | 6/B | cattle | abscess | 2015 | Kuyavian-Pomeranian |
| 5. | 7/B | cattle | metritis | 2015 | Kuyavian-Pomeranian |
| 6. | 13/B | cattle | metritis | 2015 | Kuyavian-Pomeranian |
| 7. | 19/B | cattle | mastitis | 2015 | Kuyavian-Pomeranian |
| 8. | 27/B | cattle | mastitis | 2015 | Kuyavian-Pomeranian |
| 9. | 3/Z | European bison | balanoposthitis | 2015-16 | Bialowieza National Park |
| 10. | 6/Z | European bison | balanoposthitis | 2015-16 | Bialowieza National Park |
| 11. | 7/Z | European bison | balanoposthitis | 2015-16 | Bialowieza National Park |
| 12. | 10/Z | European bison | abscess | 2015-16 | Bialowieza National Park |
| 13. | 12/Z | European bison | abscess | 2015-16 | Bialowieza National Park |
| 14. | 18/Z | European bison | balanoposthitis | 2015-16 | Bialowieza National Park |
| 15. | 23/Z | European bison | pneumonia | 2015-16 | Bialowieza National Park |
| 16. | 2/S | pig | pneumonia | 2015 | Lublin Voivodeship |
| 17. | 4/S | pig | pneumonia | 2015 | Lublin Voivodeship |
| 18. | 6/S | pig | heart abscess | 2015 | Lublin Voivodeship |
| 19. | 10/S | pig | pneumonia | 2015 | Lublin Voivodeship |
| 20. | 12/S | pig | liver abscess | 2015 | Lublin Voivodeship |
| 21. | 14/S | pig | join abscess | 2015 | Lublin Voivodeship |
| 22. | 18/S | pig | pneumonia | 2015 | Lublin Voivodeship |
| 23. | 22/S | pig | brain abscess | 2015 | Lublin Voivodeship |
| 24. | 1/K | goat | abscess | 2010 | Greater Poland Voivodeship |
| 25. | 4/K | goat | abscess | 2012 | Greater Poland Voivodeship |
| 26. | 20/K | goat 1 | lung abscess | 2015 | Greater Poland Voivodeship |
| 27. | 21/K | goat 1 | mammary gland | 2015 | Greater Poland Voivodeship |
| 28. | 22/K | goat 1 | lymph node | 2015 | Greater Poland Voivodeship |
| 29. | 54/K | goat 1 | lymph node | 2015 | Greater Poland Voivodeship |
| 30. | 26/K | goat 2 | vagina abscess | 2016 | Greater Poland Voivodeship |
| 31. | 27/K | goat 2 | lung abscess | 2016 | Greater Poland Voivodeship |
| 32. | 28/K | goat 3 | lung abscess | 2016 | Greater Poland Voivodeship |
| 33. | 30/K | goat 3 | lung abscess | 2016 | Greater Poland Voivodeship |
| 34. | 31/K | goat 3 | bronchial abscess | 2016 | Greater Poland Voivodeship |
| 35. | 34/K | goat 3 | lung abscess | 2016 | Greater Poland Voivodeship |
| 36. | 4/O | sheep | abscess | 2007 | Greater Poland Voivodeship |
| 37. | 5/O | sheep | Ropień kości | 2007 | Greater Poland Voivodeship |