

| Strain designation | Other strain designations | <i>Hin</i> dIII- <i>Hin</i> c11 ribotype | <i>Eco</i> RI ribotype * | Biotype † | PCR detection of resistance genes and <i>intI1</i> | | | | | | | | 5'-3' CS amplicon (kb) | Inhibit. zone diameters (mm) ‡ | | | | | MIC range (μg/ml) § | | | | Specimen | Date of isolation | City (country) §§ | Specialty | | | | | | | | |
|---|---------------------------------|--|--------------------------|-----------|--|--------------|--------------|--------------|-------------|--------------|--------------|--------------|------------------------|--------------------------------|-----|-----|-----|-----|---------------------|----------|-------|--------|---------------------|-------------------|---------------------|------------------|--|--|--|--|--|--|--|--|
| | | | | | <i>aacC1</i> | <i>aadA1</i> | <i>aphA1</i> | <i>aphA6</i> | <i>aadB</i> | <i>aacC2</i> | <i>aacA4</i> | <i>intI1</i> | | Kan | Gen | Net | Tob | Ami | Gen | Net | Tob | Ami | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | ≤13 | ≤12 | ≤12 | ≤12 | ≤14 | ≥16 | ≥32 | ≥16 | ≥64 | | | | | | | | |
| Czech clone II strains (n=21) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIPH 24 | LUH 3788 = CCM 7033 = LMG 22457 | 2-2 | II | 2 | + | + | + | - | - | - | - | + | 2.5 | 6 | 6 | 13 | 16 | 16 | >32 | 32 | 4-8 | 8-16 | Urinary catheter | 9/1991 | Praha 1 (CZ) | Burns unit | | | | | | | | |
| NIPH 141 | LUH 4578 | 2-2 | II | 2 | + | + | - | - | - | - | - | + | 2.5 | 23 | 8 | 17 | 19 | 22 | >32 | 8 | 2 | 2 | Intravenous cannula | 6/1993 | Praha 1 (CZ) | Neurological ICU | | | | | | | | |
| NIPH 220 | LUH 4586 | 2-2 | II | 2 | + | + | + | - | - | - | - | + | 2.5 | 6 | 6 | 6 | 8 | 8 | >32 | >64 | >16 | 128 | Lung dissection | 1/1993 | Kladno (CZ) | Neonatology | | | | | | | | |
| NIPH 330 | LUH 4603 | 2-2 | II | 2 | + | + | + | - | - | - | - | + | 2.5 | 6 | 6 | 16 | 19 | 20 | >32 | 8 | 2 | 2-4 | Pus | 7/1994 | Tábor (CZ) | Orthopaedic | | | | | | | | |
| NIPH 455 | LUH 4623 | 2-2 | II | 2 | + | + | + | + | - | - | - | + | 2.5 | 6 | 7 | 16 | 19 | 8 | >32 | 8 | 2 | 128 | Blood | 9/1996 | Jihlava (CZ) | ICU | | | | | | | | |
| NIPH 471 | LUH 4625 | 2-2 | II | 2 | + | + | + | - | - | - | - | + | 2.5 | 6 | 7 | 17 | 19 | 21 | >32 | 8 | 2 | 2 | Bronchial secretion | 1/1997 | Č. Budějovice (CZ) | ICU | | | | | | | | |
| NIPH 499 | LUH 8964 | 2-2 | II | 2 | + | + | + | - | - | - | - | + | 2.5 | 6 | 7 | 18 | 20 | 21 | >32 | 4-8 | 2 | 2 | Sputum | 4/1997 | Příbram 2 (CZ) | ICU | | | | | | | | |
| NIPH 657 | LUH 4629 = CCM 7117 | 6-4 | X (II) | 2 | + | + | + | + | - | - | - | + | 2.5 | 6 | 7 | 16 | 18 | 8 | >32 | 8 | 2 | 128 | Tracheostomy | 4/1996 | Praha 1 (CZ) | Neurology | | | | | | | | |
| NIPH 720 | LUH 8965 | 6-4 | X (II) | 2 | + | + | + | + | - | - | - | + | 2.5 | 6 | 7 | 17 | 20 | 10 | >32 | 8 | 2 | 64 | Bronchial secretion | 7/1997 | Č. Budějovice (CZ) | Paediatrics ICU | | | | | | | | |
| NIPH 732 | LUH 8966 | 6-4 | X (II) | 2 | + | + | + | + | - | - | - | + | 2.5 | 6 | 7 | 17 | 20 | 10 | >32 | 8 | 2 | 64 | Bronchial secretion | 9/1997 | Č. Krumlov (CZ) | ICU | | | | | | | | |
| NIPH 1362 | LUH 7855 = CCM 7118 | 4-2 | XI | 2 | - | - | - | - | - | - | - | - | - | 24 | 17 | 16 | 22 | 23 | 2-4 | 8-16 | 1 | 1-2 | Tracheal aspirate | 1/2000 | Praha 3 (CZ) | Surgery ICU | | | | | | | | |
| NIPH 1462 | LUH 7856 | 2-2 | II | 2 | - | - | + | - | - | - | - | - | - | 7 | 20 | 23 | 21 | 23 | 0.5-1 | 1 | 0.5-1 | 1 | Sputum | 1/2001 | Tábor (CZ) | ICU | | | | | | | | |
| NIPH 1469 | LUH 7858 | 4-2 | XI | 2 | - | - | - | + | - | - | - | - | - | 6 | 16 | 15 | 21 | 9 | 2-4 | 8-16 | 1 | 128 | Sputum | 1/2001 | Praha 2 (CZ) | Surgery ICU | | | | | | | | |
| NIPH 1511 | LUH 8972 | 2-5 | XIII | 2 | + | + | + | - | - | - | - | + | 3.0 | 6 | 6 | 14 | 19 | 20 | >32 | 16 | 2 | 4 | Drainage fluid | 3/2001 | Praha 4 (CZ) | Surgery ICU | | | | | | | | |
| NIPH 1523 | LUH 8974 | 6-4 | X (II) | 2 | + | + | + | + | - | - | - | + | 2.5 | 6 | 6 | 16 | 19 | 10 | >32 | 8 | 2 | 64 | Sputum | 4/2001 | Havlíčkův Brod (CZ) | ICU | | | | | | | | |
| NIPH 1526 | LUH 7863 | 2-2 | II | 2 | + | + | + | - | - | - | - | + | 2.5 | 6 | 7 | 17 | 19 | 20 | >32 | 8 | 2 | 4 | Wound swab | 4/2001 | Blansko (CZ) | | | | | | | | | |
| NIPH 1567 | LUH 8975 | 2-2 | II | 2 | + | + | + | - | - | - | - | + | 2.5 | 6 | 7 | 16 | 19 | 21 | >32 | 8 | 2 | 4 | Blood | 1/2001 | Jihlava (CZ) | Surgery | | | | | | | | |
| NIPH 1628 | LUH 8405 | 2-4 | II | 2 | - | - | - | - | - | - | - | - | - | 24 | 16 | 17 | 21 | 21 | 4 | 8 | 1-2 | 2 | Blood | 9/2001 | Praha 1 (CZ) | ICU | | | | | | | | |
| NIPH 1629 | LUH 7867 | 2-5 | XIII | 2 | + | + | + | - | - | - | - | + | 3.0 | 6 | 7 | 14 | 19 | 20 | >32 | 16-32 | 2 | 2-4 | Blood | 9/2001 | Praha 1 (CZ) | ICU | | | | | | | | |
| NIPH 1696 | LUH 8978 | 2-2 | II | 2 | + | + | + | - | - | - | - | + | 2.5 | 6 | 7 | 16 | 18 | 20 | >32 | 8 | 2 | 2-4 | Urine | 6/2001 | Praha 3 (CZ) | Surgery ICU | | | | | | | | |
| NIPH 1711 | LUH 7870 | 4-2 | II | 2 | - | - | - | - | - | - | - | - | - | 25 | 17 | 15 | 21 | 22 | 2 | 16 | 1 | 1 | Nasal swab | 7/2001 | Praha 3 (CZ) | ICU | | | | | | | | |
| Non-Czech clone II strains (n=15) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RUH 134 | NIPH 528 = LMG 10541 | 2-2 | II | 1 | + | + | + | - | - | - | - | + | 3.0 | 6 | 7 | 18 | 19 | 21 | 32 | 8 | 2 | 2-4 | Urine | 1982 | Rotterdam (NL) | ICU | | | | | | | | |
| RUH 3240 | NIPH 537 = GNU 1086 | 4-2 | XI | 2 | + | + | - | - | - | + | - | + | 2.5 | 23 | 7 | 11 | 17 | 21 | >32 | 32-64 | 4 | 4 | Respiratory tract | 1989 | Newcastle (UK) | ICU | | | | | | | | |
| RUH 3422 | NIPH 538 = PGS 189 | 2-2 | II | 2 | - | - | + | - | - | - | - | - | - | 6 | 19 | 23 | 21 | 23 | 1 | 1 | 1 | 1 | Ulcer | 1984 | Odense (DK) | ICU | | | | | | | | |
| RUH 3245 | NIPH 539 = GNU 1080 | 2-2 | II | 9 | - | - | - | - | - | - | + | - | - | 24 | 6 | 9 | 16 | 23 | >32 | 64 | 4 | 1-2 | Urinary catheter | 1989 | Salisbury (UK) | Neurology | | | | | | | | |
| LUH 1245 | NIPH 780 | 2-2 | II | 2 | + | + | + | - | + | - | - | + | 2.5 | 6 | 6 | 15 | 6 | 21 | >32 | 16 | >16 | 4 | Trachea | 11/1993 | Debrecen (HU) | | | | | | | | | |
| LUH 1398 | NIPH 823 | 2-2 | II | 2 | + | + | + | + | - | - | - | + | 2.5 | 6 | 7 | 19 | 21 | 9 | 32 | 4 | 1 | 64 | Throat | 11/1997 | St. Zagora (BG) | | | | | | | | | |
| LUH 6034 | NIPH 1657 = 17C003 | 2-2 | II | 2 | - | - | - | + | - | + | - | - | - | 6 | 6 | 8 | 13 | 8 | >32 | >64 | 8 | 64-128 | Sputum | 5/1998 | Madrid (ES) | | | | | | | | | |
| LUH 6021 | NIPH 1666 = 14C003 | 2-2 | II | 2 | + | + | + | + | - | - | - | + | 2.5 | 6 | 8 | 19 | 22 | 11 | 32 | 4 | 1 | 32-64 | Sputum | 12/1998 | Krakow (PL) | | | | | | | | | |
| LUH 6126 | NIPH 1652 = 15A250 | 2-4 | II | 1 | - | - | - | - | - | - | - | - | - | 23 | 12 | 8 | 18 | 20 | 8-16 | >64 | 2 | 4 | Blood | 5/1998 | Coimbra (PT) | | | | | | | | | |
| LUH 6011 | NIPH 1660 = 09A242 | 4-21 | XI | 1 | - | - | + | - | - | - | - | + | 2.2 | 6 | 13 | 7 | 10 | 18 | 8 | >64 | >16 | 4-8 | Blood | 11/1997 | Athens (GR) | | | | | | | | | |
| LUH 5868 | NIPH 1667 = 06A102 | 2-22 | II | 2 | - | - | + | - | - | - | - | - | - | 6 | 7 | 6 | 6 | 11 | 32 | >64 | >16 | 64 | Blood | 7/1997 | Lille (FR) | | | | | | | | | |
| LUH 5865 | NIPH 1651 = 18C132 | 26-2 | II | 2 | - | - | - | - | - | + | - | - | - | 23 | 6 | 9 | 14 | 22 | >32 | 64 | 8 | 2 | Sputum | 4/1998 | Barcelona (ES) | | | | | | | | | |
| LUH 6024 | NIPH 1653 = 16A502 | 26-2 | II | 2 | - | - | - | + | - | + | - | - | - | 6 | 6 | 10 | 16 | 8 | >32 | 64 | 4 | 128 | Blood | 9/1998 | Seville (ES) | | | | | | | | | |
| LUH 6044 | NIPH 1654 = 18C103 | 26-2 | II | 2 | - | - | - | + | - | + | - | - | - | 6 | 6 | 7 | 11 | 9 | >32 | >64 | >16 | 64-128 | Sputum | 4/1998 | Barcelona (ES) | | | | | | | | | |
| LUH 6029 | NIPH 1663 = 16D042 | 26-2 | II | 2 | - | - | - | + | - | + | - | - | - | 6 | 6 | 6 | 9 | 8 | >32 | >64 | >16 | 64 | Blood | 7/1998 | Seville (ES) | | | | | | | | | |
| Clone III strains (n=6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LUH 6028 | NIPH 1648 = 16D025 | 25-1 | XVI | 9 | - | - | - | + | + | - | - | + | 0.75 | 6 | 6 | 17 | 7 | 12 | >32 | 8-16 | >16 | 64 | Wound | 7/1997 | Seville (ES) | | | | | | | | | |
| LUH 6037 | NIPH 1650 = 18A155 | 25-1 | XVI | 9 | - | - | - | + | + | - | - | + | 0.75 | 6 | 6 | 16 | 7 | 13 | >32 | 8 | >16 | 32-64 | Blood | 8/1997 | Barcelona (ES) | | | | | | | | | |
| LUH 6035 | NIPH 1655 = 17C085 | 25-1 | XVI | 9 | - | - | - | + | + | - | - | + | 0.75 | 6 | 6 | 17 | 8 | 10 | >32 | 8-16 | >16 | 128 | Sputum | 2/1998 | Madrid (ES) | | | | | | | | | |
| LUH 6009 | NIPH 1665 = 04C048 | 25-1 | XVI | 9 | - | - | - | + | + | - | - | + | 0.75 | 6 | 6 | 16 | 8 | 10 | >32 | 16 | >16 | 128 | Sputum | 7/1997 | Paris (FR) | | | | | | | | | |
| LUH 5874 | NIPH 1668 = 06A201 | 25-1 | XVI | 9 | - | - | - | + | + | - | - | + | 0.75 | 6 | 6 | 19 | 9 | 14 | >32 | 4 | >16 | 32 | Blood | 11/1997 | Lille (FR) | | | | | | | | | |
| LUH 5875 | NIPH 1669 = 12A133 | 25-1 | XVI | 9 | - | - | - | + | + | - | - | + | 0.75 | 6 | 6 | 15 | 7 | 9 | >32 | 16 | >16 | 64 | Blood | 1/1997 | Utrecht (NL) | | | | | | | | | |
| Other Czech multi-drug resistant strains (n=8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIPH 47 | LUH 4630 | 8-1 | u | 6 | - | - | + | - | + | - | - | - | - | 6 | 6 | 18 | 8 | 21 | >32 | 4-8 | >16 | 2 | Burn | 12/1991 | Praha 1 (CZ) | Burns unit | | | | | | | | |
| NIPH 301 | LUH 7852 = LMG 22459 | 2-7 | u | 6 | - | - | + | - | - | - | - | - | - | 6 | 6 | 12 | 15 | 20 | >32 | 32 | 4-8 | 2 | Sputum | 6/1994 | Slaný (CZ) | ICU | | | | | | | | |
| NIPH 335 | LUH 4641 | 21-16 | u | 9 | - | - | - | - | + | - | - | - | - | 11 | 9 | 24 | 9 | 22 | 16-32 | 0.5 | >16 | 1 | Sputum | 7/1994 | Tábor (CZ) | Nursing home | | | | | | | | |
| NIPH 1445 | LUH 8403 | 21-16 | u | 9 | - | - | + | - | + | - | - | - | - | 6 | 9 | 25 | 11 | 23 | 16 | 0.25-0.5 | 16 | 1 | Sputum | 7/2000 | Plešeň (CZ) | ICU | | | | | | | | |
| NIPH 1497 | LUH 7859 | 23-19 | XIV | 6 | - | - | + | - | - | - | - | - | - | 6 | 6 | 12 | 11 | 21 | >32 | 32 | 16 | 2 | Cerebrospinal fluid | 3/2001 | Praha 4 (CZ) | Infection ICU | | | | | | | | |
| NIPH 1683 | LUH 7869 | 23-19 | XIV | 6 | - | - | + | - | - | - | - | - | - | 6 | 9 | 19 | 16 | 22 | 16 | 4 | 4 | 2 | Blood | 4/2001 | Praha 3 (CZ) | Surgery | | | | | | | | |
| NIPH 1717 | LUH 7871 | 2-6 | u | 6 | - | - | + | - | - | - | - | - | - | 6 | 15 | 16 | 19 | 21 | 4 | 8 | 2 | 2 | Urine | 7/2001 | Praha 3 (CZ) | Surgery ICU | | | | | | | | |
| NIPH 1734 | LUH 8406 | 24-20 | u | New | - | - | - | + | + | - | - | - | - | 6 | 6 | 12 | 8 | 12 | >32 | 32 | >16 | 32-64 | Sputum | 11/2001 | Mladá Boleslav (CZ) | ICU | | | | | | | | |

* Highly similar ribotypes are indicated in parentheses; u, unique pattern.

† Biotypes according to Bouvet & Grimont (1987); NG, no growth on mineral media.

‡ NCCLS (2000) breakpoints for resistance are indicated. 6, no inhibition zone.

§ NCCLS (2003) breakpoints for resistance are indicated.

§§ Different hospitals of the same city are numbered