



Strain identifier

BacDive ID: 4941 **DOI:** 10.13145/bacdive4941.20190402.4
Type strain: yes **Designation:** 479-2
Culture col. no.: DSM 5175, ATCC 13182, IAM 14201, JCM 1665, CCUG 15717, CECT 860

Sections

- Name and taxonomic classification
- Morphology and physiology
- Culture and growth conditions
- Isolation, sampling and environmental informationarrow
- Application and interaction
- Molecular biology
- Strain availability
- References

Name and taxonomic classification

| | | |
|------------|-----------------------------|---|
| Ref.: 1950 | Domain | Bacteria |
| Ref.: 1950 | Phylum | Proteobacteria |
| Ref.: 1950 | Class | Gammaproteobacteria |
| Ref.: 1950 | Order | Enterobacteriales, not validated |
| Ref.: 1950 | Family | Enterobacteriaceae |
| Ref.: 1950 | Genus | Klebsiella |
| Ref.: 1950 | Species | Klebsiella oxytoca |
| Ref.: 1950 | Full Scientific Name | Klebsiella oxytoca (Flügge 1886) Lautrop 1956 |
| Ref.: 1950 | Designation: | 479-2 |
| Ref.: 1950 | Type strain: | yes |

Prokaryotic Nomenclature Up-to-date (PNU)

| | | |
|-------------|----------------------|--|
| Ref.: 20215 | Domain | Bacteria |
| Ref.: 20215 | Phylum | Proteobacteria |
| Ref.: 20215 | Class | Gammaproteobacteria |
| Ref.: 20215 | Literature reference | Int. J. Syst. Evol. Microbiol. 55:2236 |
| Ref.: 20215 | Family | Enterobacteriaceae |
| Ref.: 20215 | Literature reference | Int. J. Syst. Bacteriol. 30:236 |
| Ref.: 20215 | Genus | Klebsiella |



| | | |
|-------------|-----------------------------|---|
| Ref.: 20215 | Taxonomical status | genus (AL) |
| Ref.: 20215 | Literature reference | Int. J. Syst. Bacteriol. 30:225 |
| Ref.: 20215 | Species | Klebsiella oxytoca |
| Ref.: 20215 | Taxonomical status | comb. nov. (AL) |
| Ref.: 20215 | Literature reference | Int. J. Syst. Bacteriol. 30:225 |
| Ref.: 20215 | Full Scientific Name | Klebsiella oxytoca (Flügge 1886) Lautrop 1956 |

Morphology and physiology

Ref.: 1950

API 20E

| API ID | 4558 | 4374 | 5484 |
|------------------|------|------|------|
| ONPG | - | + | + |
| ADH (Arg) | + | - | - |
| LDC (Lys) | + | + | + |
| ODC | - | - | - |
| CIT | + | + | + |
| H ₂ S | - | - | - |
| URE | + | - | + |
| TDA (Trp) | - | - | - |
| IND | + | + | + |
| VP | + | + | + |
| GEL | - | - | - |
| GLU | + | + | + |
| MAN | + | + | + |
| INO | + | + | + |
| Sor | + | + | + |
| RHA | + | + | + |
| SAC | + | + | + |
| MEL | + | + | + |
| AMY | + | + | + |
| ARA | + | + | + |
| OX | - | - | - |
| NO ₂ | n.d. | n.d. | n.d. |
| N ₂ | n.d. | n.d. | n.d. |
| MOB | n.d. | n.d. | n.d. |
| MAC | n.d. | n.d. | n.d. |
| OF-O | n.d. | n.d. | n.d. |
| OF-F | n.d. | n.d. | n.d. |

Ref.: 46330 **Oxygen tolerance** aerobe

Culture and growth conditions

Ref.: 1950 **Culture medium** NUTRIENT AGAR (DSMZ Medium 1), 37°C

Ref.: 1950 **Culture medium growth** yes

Ref.: 1950 **Culture medium link** https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium1.pdf

Ref.: 34208 **Culture medium** MEDIUM 72- for trypto casein soja agar

Ref.: 34208 **Culture medium growth** yes

Ref.: 34208 **Culture medium composition** Distilled water make up to (1000.000 ml);Trypto casein soy agar (40.000 g)

Temperatures

Ref.: 1950

Ref.: 34208

Ref.: 46330

| Kind of temperature | Temperature |
|---------------------|-------------|
| growth | 37 °C |
| growth | 30 °C |
| growth | 37 °C |

Ref.: 1950 **Temperature range** mesophilic

Ref.: 34208 **Temperature range** mesophilic

Ref.: 46330 **Temperature range** mesophilic

Isolation, sampling and environmental information

Ref.: 1950 **Sample type/isolated from** pharyngeal tonsil

Ref.: 46330 **Sample type/isolated from** Human pharyngeal tonsil

Isolation sources categories

| Cat1 | Cat2 | Cat3 |
|-----------------|--------------------------|------|
| #Host Body-Site | #Oral cavity and airways | - |

Application and interaction

Ref.: 1950 **Pathogenicity (human)** yes

Ref.: 1950 **Pathogenicity (animal)** yes

Ref.: 1950 **Biosafety level** 2 Risk group (German classification)

Molecular biology

| | Sequence database | Sequence accession description | Sequence accession number | Sequence length(bp) | Associated NCBI tax ID | |
|-----------------------------|---|--|----------------------------------|----------------------------|-------------------------------|---|
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca DNA gyrase A (gyrA) gene, partial cds | AF038433 | 180 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca DNA gyrase A (gyrA) gene, partial cds | AF052257 | 589 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca 16S ribosomal RNA gene, partial sequence | AF129440 | 1436 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 beta-lactamase K1 (bla OXY) gene, complete cds | AF473577 | 1056 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca albicidin resistance protein (albA) gene, complete cds | AF525464 | 666 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Klebsiella oxytoca partial rpoB gene for RNA polymerase, beta subunit, type strain SB175T | AJ871804 | 940 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Klebsiella oxytoca partial gapdh gene for glyceraldehyde-3-phosphate dehydrogenase, type strain SB175T | AJ871823 | 573 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Klebsiella oxytoca partial gyrA gene for DNA gyrase, subunit A, type strain SB175T | AJ871840 | 383 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Klebsiella oxytoca partial 16S rRNA gene, type strain SB175T | AJ871858 | 1454 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Klebsiella oxytoca blaOXY-2 gene for beta-lactamase, type strain SB175T | AJ871867 | 873 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Sequence 1608 from Patent WO0123604 | AX110875 | 341 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Sequence 1655 from Patent WO0123604 | AX110922 | 776 | 571 | * |



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|-------------|---|---|----------|------|-----|---|
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Sequence 1777 from Patent WO0123604 | AX111044 | 668 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Sequence 1825 from Patent WO0123604 | AX111092 | 79 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Sequence 1829 from Patent WO0123604 | AX111096 | 70 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Sequence 1839 from Patent WO0123604 | AX111106 | 1109 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 internal transcribed spacer 1, complete sequence | AY116899 | 352 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 RpoB gene, partial cds | AY367363 | 1029 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 Mdh gene, partial cds | AY367380 | 673 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 gyrase B (gyrB) gene, partial cds | AY370849 | 506 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 elongation factor EF-G (fusA) gene, partial cds | EU010028 | 633 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 leucine tRNA synthetase (leuS) gene, partial cds | EU010055 | 642 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 CTP synthetase (pyrG) gene, partial cds | EU010082 | 306 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 RNA polymerase beta subunit (rpoB) gene, partial cds | EU010109 | 501 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain ATCC 13182 16S ribosomal RNA gene, partial sequence | FJ971867 | 795 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca RNA polymerase beta-subunit (rpoB) gene, partial cds | U77442 | 512 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca 16S ribosomal RNA gene, partial sequence | U78183 | 1502 | 571 | * |



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|-------------|---|---|----------|------|-----|---|
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Klebsiella oxytoca 16S rRNA gene, strain ATCC13182T, partial | Y17655 | 1452 | 571 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Klebsiella oxytoca partial 23S rRNA gene, type strain DSM 5175T | AJ549513 | 834 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain DSM 5175 origin of replication oriC, complete sequence | DQ227490 | 289 | 571 | * |
| Ref.: 20218 | Marker Gene (DDBJ Direct submission) | Klebsiella oxytoca gene for 16S ribosomal RNA, partial sequence | AB004754 | 1441 | 571 | * |
| Ref.: 20218 | Marker Gene (DDBJ Direct submission) | Klebsiella oxytoca gene for GroES protein homologue, GroEL protein homologue, partial cds | AB008147 | 1933 | 571 | * |
| Ref.: 20218 | Marker Gene (DDBJ Direct submission) | Klebsiella oxytoca gene for 16S rRNA, partial sequence, strain: JCM 1665 | AB626120 | 1462 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain LMG 3055 ATP synthase beta subunit (atpD) gene, partial cds | JX424964 | 642 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain LMG 3055 DNA gyrase (gyrB) gene, partial cds | JX425093 | 742 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain LMG 3055 initiation translation factor 2 (infB) gene, partial cds | JX425223 | 615 | 571 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Klebsiella oxytoca strain LMG 3055 RNA polymerase beta subunit (rpoB) gene, partial cds | JX425349 | 637 | 571 | * |
| Ref.: 20218 | Marker Gene (DDBJ Direct submission) | Klebsiella oxytoca gene for 16S rRNA, partial sequence, strain: NBRC 102593 | AB681870 | 1465 | 571 | * |

Strain availability

Ref.: 1950 **Culture collection no.** DSM 5175, ATCC 13182, IAM 14201, JCM 1665, CCUG 15717, CECT 860

Ref.: 1950 **Strain history** <- ATCC <- R. Hugh, 479-2

Associated Passport(s) in StrainInfo



- Ref.: 20218 151753 - <http://www.straininfo.net/strains/151753>
Ref.: 20218 159086 - <http://www.straininfo.net/strains/159086>
Ref.: 20218 12427 - <http://www.straininfo.net/strains/12427>

References

- Ref.: 1950 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 5175
- Ref.: 20215 D.Gleim, M.Kracht, N.Weiss et. al.: Prokaryotic Nomenclature Up-to-date - compilation of all names of Bacteria and Archaea, validly published according to the Bacteriological Code since 1. Jan. 1980, and validly published nomenclatural changes since.
- Ref.: 20218 Verslyppe, B., De Smet, W., De Baets, B., De Vos, P., Dawyndt P. StrainInfo introduces electronic passports for microorganisms.. Syst Appl Microbiol. 37: 42-50 2014 (10.1016/j.syapm.2013.11.002, 24321274)
- Ref.: 34208 None; Curators of the CIP; None
- Ref.: 46330 Culture Collection University of Gothenburg (CCUG); Curators of the CCUG; CCUG 15717

*** These References are textmined**

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