

Strain identifier

BacDive ID: 4908 **DOI:** 10.13145/bacdive4908.20171208.2.1
Type strain: no **Designation:** 99-4
Culture col. no.: DSM 46219, ATCC 14561, IMET 10736

Sections

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Name and taxonomic classification

| | | |
|-----------------------------|-----------------------------|---|
| Ref.: 12486 | Domain | Bacteria |
| Ref.: 12486 | Phylum | Proteobacteria |
| Ref.: 12486 | Class | Gammaproteobacteria |
| Ref.: 12486 | Order | Enterobacteriales, not validated |
| Ref.: 12486 | Family | Enterobacteriaceae |
| Ref.: 12486 | Genus | Escherichia |
| Ref.: 12486 | Species | Escherichia coli |
| Ref.: 12486 | Full Scientific Name | Escherichia coli (Migula 1895) Castellani and Chalmers 1919 |
| Ref.: 12486 | Designation: | 99-4 |
| Ref.: 12486 | Type strain: | no |

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 | Escherichia |
| Ref.: 20215 | Taxonomical status | genus (AL) |
| Ref.: 20215 | Literature reference | Int. J. Syst. Bacteriol. 30:295 AL |
| Ref.: 20215 | Species | Escherichia coli |

| | | |
|-------------|-----------------------------|--|
| Ref.: 20215 | Taxonomical status | species (AL) |
| Ref.: 20215 | Literature reference | Int. J. Syst. Bacteriol. 30:296 AL |
| Ref.: 20215 | Full Scientific Name | <i>Escherichia coli</i> (Migula 1895) Castellani and Chalmers 1919 |

Morphology and physiology

Ref.: 12486

API 20E

| | |
|------------------|------|
| API ID | 2837 |
| 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 ₂ | + |
| MOB | n.d. |
| MAC | n.d. |
| OF-O | n.d. |
| OF-F | n.d. |

Culture and growth conditions

| Ref.: 12486 | Culture medium | NUTRIENT AGAR (DSMZ Medium 1), 37°C | | | | |
|---------------------|-----------------------------------|--|---------------------|-------------|---------|-------|
| Ref.: 12486 | Culture medium growth | yes | | | | |
| Ref.: 12486 | Culture medium link | https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium1.pdf | | | | |
| Ref.: 12486 | Culture medium composition | Peptone 5.0 g Meat extract 3.0 g Agar, if necessary 15.0 g Distilled water 1000.0 ml Adjust pH to 7.0. For Bacillus strains the addition of 10.0 mg MnSO ₄ x H ₂ O is recommended for sporulation. | | | | |
| Ref.: 12486 | Culture medium | LB (Luria-Bertani) MEDIUM (DSMZ Medium 381), 37°C | | | | |
| Ref.: 12486 | Culture medium growth | yes | | | | |
| Ref.: 12486 | Culture medium link | https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium381.pdf | | | | |
| Ref.: 12486 | Culture medium composition | Tryptone 10.0 g Yeast extract 5.0 g NaCl 10.0 g Distilled water 1000.0 ml Adjust pH to 7.0. | | | | |
| | Temperatures | <table border="1"> <thead> <tr> <th>Kind of temperature</th> <th>Temperature</th> </tr> </thead> <tbody> <tr> <td>optimum</td> <td>37 °C</td> </tr> </tbody> </table> | Kind of temperature | Temperature | optimum | 37 °C |
| Kind of temperature | Temperature | | | | | |
| optimum | 37 °C | | | | | |
| Ref.: 12486 | | | | | | |
| Ref.: 12486 | Temperature range | mesophilic | | | | |

Application and interaction

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|-------------|------------------------|--------------------------------------|
| Ref.: 12486 | Biosafety level | 1 Risk group (German classification) |
|-------------|------------------------|--------------------------------------|

Strain availability

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|-------------|-------------------------------|-----------------------------------|
| Ref.: 12486 | Culture collection no. | DSM 46219, ATCC 14561, IMET 10736 |
| Ref.: 12486 | Strain history | <- IMET <- Jenapharm (ATCC 14561) |

Associated Passport(s) in StrainInfo

| | |
|-------------|--|
| Ref.: 20218 | 170150 - http://www.straininfo.net/strains/170150 |
| Ref.: 20218 | 97654 - http://www.straininfo.net/strains/97654 |
| Ref.: 20218 | 170151 - http://www.straininfo.net/strains/170151 |

References

| | |
|-------------|--|
| Ref.: 12486 | Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 46219 |
|-------------|--|

[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)

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