

Antimicrobial resistance drugs in SciFinder

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CAS SciFinder

References antimicrobial resistance

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Document Type

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- Patent (880)
- Review (9,774)
- Biography (6)
- Book (31)

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1

A novel green Microfiltration approach by developing a Lab-on-a-Chip System: A case study for *Escherichia coli*

By: Javanifar, Roshan Dabagh, Shadab Kaya, Murat Butun Sengel, Sultan; Ebrahimi, Allakbar Ghorbanpoor, Hamed Avci, Huseyin

Separation and Purification Technology (2025), 353(Part_A), 128411 | Language: English, Database: Cplius

Fabrication of microfluidic devices for passively separating pathogenic bacteria from diluted water is a significant advancement in separation, particularly in the context of antimicrobial resistance and bacterial filtration. This method reduces the costs complicated technol. associated with centrifugation and mech. filtering. In this study, a microfluidic chip was developed for *Escherichia coli* (E. coli) filtration by adding pos. charged electrospun polyacrylonitrile (PAN) and (Thyme/PAN) nanofibers. The nanofibers shape, fiber diameter and pore size diameter of the nanofibers were analyzed using field emission SEM (FE-SEM) and ImageJ software. They showed the distribution of fibers with diameter around 131 and 142 nm and pores diameter of 153 and 122

Substances

Substances from References

References Reactions Suppliers

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Reaction Role

- Product (31K)
- Reactant (19K)
- Reagent (6,072)
- Catalyst (5,297)
- Solvent (2,031)

Reference Role

- Biological Study (67K)

77,816 Results

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1

60-54-8

Absolute stereochemistry shown, Rotation (-)

$C_{22}H_{24}N_2O_8$

(-)-Tetracycline

82K References 10K Reactions 68 Suppliers

2

56-75-7

Absolute stereochemistry shown, Rotation (-)

$C_{11}H_{12}Cl_2N_2O_5$

(-)-Chloramphenicol

61K References 447 Reactions 151 Suppliers

3

57-92-1

Absolute stereochemistry shown

$C_{21}H_{39}N_7O_{12}$

Streptomycin

57K References 65 Reactions 38 Suppliers

Piyush Ranjan Maharana

Reactions

Scheme 1 (1 Reaction)

Steps: 1 Yield: 80%

Absolute stereochemistry shown

Absolute stereochemistry shown

complexes with transition metals and quinolnol

Suppliers (38)

31-614-CAS-27246244

Steps: 1 Yield: 80%

1.1 Reagents: 7-Hydroxyquinoline, Cobalt chloride ($CoCl_2$)

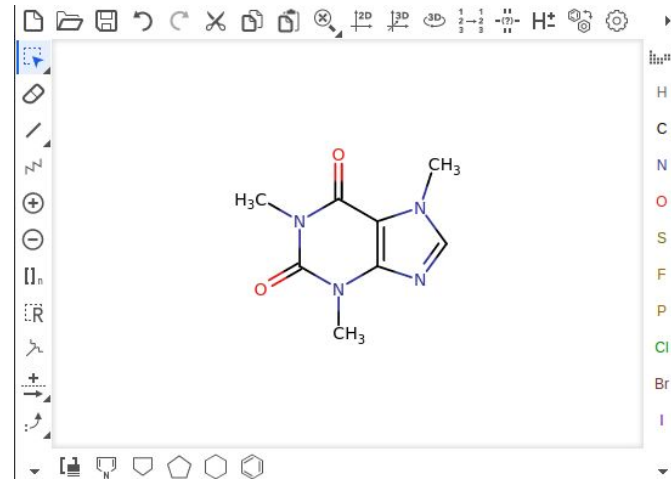
Solvents: Methanol; heated; > 1 h, 75 °C

Synthesis, investigation, spectroscopic characterization and computational modeling of mixed ligand complexes of Cu(II), Fe(II), Co(II) and Bi(V) using biological active streptomycin and oxime

By: Mishra, Parashuram

Elixir Online Journal (2012), (July), 9361-9366

Chemical file formats



MDL Molfile

MJ240300

```
14 15 0 0 0 0 0 0 0 0999 V2000
-0.7145 -0.4125 0.0000 C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
-0.7145 0.4125 0.0000 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0.7145 -0.4125 0.0000 C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0.7145 0.4125 0.0000 C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0.0000 -0.8250 0.0000 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0.0000 0.8250 0.0000 C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

<https://www.ebi.ac.uk/chebi/searchId.do?chebiId=CHEBI:27732>

<https://marvinjs-demo.chemaxon.com/latest/demo.html>

SMILES

CN1C=NC2=C1C(=O)N(C)C(=O)N2C

SMARTS

**[#6]-[#7]-1-[#6]=[#7]-[#6]-2=[#6]-1-[#6](=O)-[#7](-[#6])-[#6]
(=O)-[#7]-2-[#6]**

MDL SDfile

Mrv2311 09122412442D

[illegible]

