



## Strain identifier

**BacDive ID:** 1301      **DOI:** 10.13145/bacdive1301.20190402.4  
**Type strain:** yes      **Designation:** WPCB074  
**Culture col. no.:** DSM 24778, CIP 110208, JCM 16348, KCTC 13278

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## Name and taxonomic classification

<a href="#">Ref.: 17761</a>	<b>Domain</b>	Bacteria
<a href="#">Ref.: 17761</a>	<b>Phylum</b>	Firmicutes
<a href="#">Ref.: 17761</a>	<b>Class</b>	Bacilli
<a href="#">Ref.: 17761</a>	<b>Order</b>	Bacillales
<a href="#">Ref.: 17761</a>	<b>Family</b>	Bacillaceae
<a href="#">Ref.: 17761</a>	<b>Genus</b>	Fictibacillus
<a href="#">Ref.: 17761</a>	<b>Species</b>	Fictibacillus rigui
<a href="#">Ref.: 17761</a>	<b>Full Scientific Name</b>	Fictibacillus rigui (Baik et al. 2010) Glaeser et al. 2013
<a href="#">Ref.: 17761</a>	<b>Designation:</b>	WPCB074
<a href="#">Ref.: 17761</a>	<b>Type strain:</b>	yes

### **Prokaryotic Nomenclature Up-to-date (PNU)**

<a href="#">Ref.: 20215</a>	<b>Domain</b>	Bacteria
<a href="#">Ref.: 20215</a>	<b>Phylum</b>	Firmicutes
<a href="#">Ref.: 20215</a>	<b>Class</b>	Bacilli
<a href="#">Ref.: 20215</a>	Literature reference	Int. J. Syst. Evol. Microbiol. 60:469
<a href="#">Ref.: 20215</a>	<b>Family</b>	Bacillaceae
<a href="#">Ref.: 20215</a>	Literature reference	Int. J. Syst. Bacteriol. 30:235
<a href="#">Ref.: 20215</a>	<b>Genus</b>	Fictibacillus
<a href="#">Ref.: 20215</a>	Taxonomical status	gen. nov. (VP)



Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 63:2934*
Ref.: 20215	<b>Species</b>	Fictibacillus rigui
Ref.: 20215	Taxonomical status	comb. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 63:2934*
Ref.: 20215	<b>Full Scientific Name</b>	Fictibacillus rigui (Baik et al. 2010) Glaeser et al. 2013
Ref.: 20215	<b>Synonym</b>	Bacillus rigui

## Morphology and physiology

Ref.: 29661	<b>Gram stain</b>	positive
Ref.: 29661	<b>Cell length</b>	03-06 µm
Ref.: 29661	<b>Cell width</b>	0.5 µm
Ref.: 29661	<b>Cell shape</b>	rod-shaped
Ref.: 29661	<b>Motility</b>	yes

### Enzymes

	Enzyme	Enzyme activity	EC number
Ref.: 29661	alkaline phosphatase	+	3.1.3.1
Ref.: 29661	catalase	+	1.11.1.6
Ref.: 29661	cytochrome oxidase	+	1.9.3.1

### Halophily

	Salt	Tested relation	Salt conc.
Ref.: 29661	NaCl	growth	0-9 %
Ref.: 29661	NaCl	optimum	01-02 %

### Metabolite utilization

	Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
Ref.: 29661	23652	Dextrin	+	carbon source
Ref.: 29661	17754	Glycerol	+	carbon source
Ref.: 29661	53423	Tween 40	+	carbon source
Ref.: 29661	18222	Xylose	+	carbon source

Ref.: 29661      **Decomposition/lysis**      aggregates in chains

Ref.: 29661      **Oxygen tolerance**      aerobe

Ref.: 29661      **Ability of spore formation**      yes

## Culture and growth conditions

Ref.: 17761 **Culture medium** BACTO MARINE BROTH (DIFCO 2216) (DSMZ Medium 514), 30°C  
 Ref.: 17761 **Culture medium growth** yes  
 Ref.: 17761 **Culture medium link** [https://www.dsmz.de/microorganisms/medium/pdf/DSMZ\\_Medium514.pdf](https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium514.pdf)

Ref.: 37583 **Culture medium** MEDIUM 72- for trypto casein soja agar  
 Ref.: 37583 **Culture medium growth** yes  
 Ref.: 37583 **Culture medium composition** Distilled water make up to (1000.000 ml);Trypto casein soy agar (40.000 g)

Ref.: 17761	Temperatures	Kind of temperature	Temperature
		growth	30 °C
Ref.: 29661		growth	10-45 °C
Ref.: 29661		optimum	30-37 °C
Ref.: 37583		growth	30 °C

Ref.: 17761 **Temperature range** mesophilic  
 Ref.: 29661 **Temperature range** mesophilic  
 Ref.: 37583 **Temperature range** mesophilic

Ref.: 29661	pH	Kind of pH	pH
		growth	06-09
Ref.: 29661		optimum	07-08

### Isolation, sampling and environmental information

Ref.: 17761 **Sample type/isolated from** fresh water  
 Ref.: 17761 **Geographic location (country and/or sea, region)** Woopo wetland  
 Ref.: 17761 **Country** Republic of Korea  
 Ref.: 17761 **Continent** Asia

Isolation sources categories	Cat1	Cat2	Cat3
	#Environmental	#Aquatic	#Freshwater

### Molecular biology

Ref.: 17761      **GC-content**                      41.9 mol% thermal denaturation, midpoint method (T<sub>m</sub>)  
Ref.: 29661      **GC-content**                      41.9 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 17761	GenBank Direct submission	Bacillus rigui strain WPCB074 16S ribosomal RNA gene, partial sequence	EU939689	1453	554308

### Strain availability

Ref.: 17761      **Culture collection no.**              DSM 24778, CIP 110208, JCM 16348, KCTC 13278  
Ref.: 17761      **Strain history**                              <- JCM <- C. N. Seong, Suncheon Natl. Univ., Korea; WPCB074

#### **Associated Passport(s) in StrainInfo**

Ref.: 20218      900317 - <http://www.straininfo.net/strains/900317>  
Ref.: 20218      855847 - <http://www.straininfo.net/strains/855847>  
Ref.: 20218      856046 - <http://www.straininfo.net/strains/856046>

### References

Ref.: 17761      Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 24778  
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.: 29661      Barberan A, Caceres Velazquez H, Jones S, Fierer N. Hiding in Plain Sight: Mining Bacterial Species Records for Phenotypic Trait Information. mSphere 2: None-None 2017 (10.1128/mSphere.00237-17, None) - **originally annotated from #26049**  
Ref.: 26049      IJSEM 2204 2010 (10.1099/ijms.0.018184-0)  
Ref.: 37583      None; Curators of the CIP; None

**\* These References are textmined**

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