Hespellia stercorisuis

Strain identifier

BacDive ID:	6356	**DOI:**	10.13145/bacdive6356.20190402.4
Type strain:	yes	**Designation:**	PC18
Culture col. no.:	DSM 15480, ATCC BAA 677, CCUG 46279, NRRL B-23456, CIP 108344		

Sections

Name and taxonomic classification

Ref.: 5950	**Domain**	Bacteria
Ref.: 5950	**Phylum**	Firmicutes
Ref.: 5950	**Class**	Clostridia
Ref.: 5950	**Order**	Clostridiales
Ref.: 5950	**Family**	Lachnospiraceae
Ref.: 5950	**Genus**	Hespellia
Ref.: 5950	**Species**	Hespellia stercorisuis
Ref.: 5950	**Full Scientific Name**	Hespellia stercorisuis Whitehead et al. 2004
Ref.: 5950	**Designation:**	PC18
Ref.: 5950	**Type strain:**	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	**Domain**	Bacteria
Ref.: 20215	**Phylum**	Firmicutes
Ref.: 20215	**Class**	Clostridia
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 60:469
Ref.: 20215	**Family**	Lachnospiraceae
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 60:470
Ref.: 20215	**Genus**	Hespellia

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Ref.: 20215	Taxonomical status	gen. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 54:241*
Ref.: 20215	**Species**	Hespellia stercorisuis
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 54:241*
Ref.: 20215	**Full Scientific Name**	Hespellia stercorisuis Whitehead et al. 2004

Morphology and physiology

Ref.: 29938	**Gram stain**	positive
Ref.: 29938	**Cell length**	1.5-5.0 µm
Ref.: 29938	**Cell width**	0.5-1.0 µm
Ref.: 29938	**Cell shape**	rod-shaped
Ref.: 29938	**Motility**	no
Ref.: 57136	**Incubation period**	3 days

Metabolite utilization

	Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
Ref.: 29938	17057	Cellobiose	+	carbon source
Ref.: 29938	28757	Fructose	+	carbon source
Ref.: 29938	17234	Glucose	+	carbon source
Ref.: 29938	17306	Maltose	+	carbon source
Ref.: 29938	37684	Mannose	+	carbon source
Ref.: 29938	30911	Sorbitol	+	carbon source
Ref.: 29938	17992	Sucrose	+	carbon source
Ref.: 29938	27082	Trehalose	+	carbon source
Ref.: 29938	18222	Xylose	+	carbon source

Ref.: 29938	**Decomposition/lysis**	aggregates in chains
Ref.: 5950	**Oxygen tolerance**	anaerobe
Ref.: 29938	**Oxygen tolerance**	anaerobe
Ref.: 57136	**Oxygen tolerance**	anaerobe
Ref.: 29938	**Ability of spore formation**	no

Culture and growth conditions

Ref.: 5950	**Culture medium**	CHOPPED MEAT MEDIUM (DSMZ Medium 78), 37°C, anaerobic
Ref.: 5950	**Culture medium growth**	yes
Ref.: 5950	**Culture medium link**	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium78.pdf
Ref.: 5950	**Culture medium**	WILKINS-CHALGREN ANAEROBE BROTH (N2/CO2) (DSMZ Medium 339a), 37°C, anaerobic
Ref.: 5950	**Culture medium growth**	yes
Ref.: 5950	**Culture medium link**	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium339a.pdf
Ref.: 36724	**Culture medium**	MEDIUM 10 - Chocolate medium for Actinobacillus pleuropneumoniae, Capnocytophaga cynodegmi, Haemophilus and Neisseria
Ref.: 36724	**Culture medium growth**	yes
Ref.: 36724	**Culture medium composition**	Distilled water make up to (1000.000 ml);Columbia agar (39.000 g);Horseblood (100.000 ml);PolyVitex mischung (10.000 ml)

Temperatures

	Kind of temperature	Temperature
Ref.: 5950	growth	37 °C
Ref.: 29938	optimum	37 °C
Ref.: 36724	growth	37 °C
Ref.: 57136	growth	37 °C

Ref.: 5950	**Temperature range**	mesophilic
Ref.: 29938	**Temperature range**	mesophilic
Ref.: 36724	**Temperature range**	mesophilic
Ref.: 57136	**Temperature range**	mesophilic

Isolation, sampling and environmental information

Ref.: 5950	**Sample type/isolated from**	stored swine manure
Ref.: 5950	**Geographic location (country and/or sea, region)**	Illinois, Peoria
Ref.: 5950	**Country**	USA
Ref.: 5950	**Continent**	North America

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Ref.: 57136	**Sample type/isolated from**	Swine manure,stored
Ref.: 57136	**Sampling date**	1998-07-01
Ref.: 57136	**Geographic location (country and/or sea, region)**	Illinois,Eureka
Ref.: 57136	**Country**	USA
Ref.: 57136	**Continent**	North America

Isolation sources categories

Cat1	Cat2	Cat3
#Host	#Mammals	#Suidae (Pig,Swine)
#Host Body Product	#Gastrointestinal tract	#Feces (Stool)

Application and interaction

Ref.: 5950	**Biosafety level**	1 Risk group (German classification)

Molecular biology

Ref.: 5950	**GC-content**	43.7 mol%
Ref.: 29938	**GC-content**	43.7 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 5950	GenBank Direct submission		AF445264		

Strain availability

Ref.: 5950	**Culture collection no.**	DSM 15480, ATCC BAA 677, CCUG 46279, NRRL B-23456, CIP 108344
Ref.: 5950	**Strain history**	<- T. R. Whitehead, National Center for Agricultural Utilization Research, USDA, Peoria, USA; PC18 <- T. R. Whitehead {1998}

Associated Passport(s) in StrainInfo

Ref.: 20218	376892 - http://www.straininfo.net/strains/376892
Ref.: 20218	376888 - http://www.straininfo.net/strains/376888
Ref.: 20218	376889 - http://www.straininfo.net/strains/376889
Ref.: 20218	376890 - http://www.straininfo.net/strains/376890

References

Ref.: 5950	Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 15480
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.: 29938	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 #26309***
Ref.: 26309	IJSEM 241 2004 (10.1099/ijs.0.02719-0)
Ref.: 36724	None; Curators of the CIP; None
Ref.: 57136	Culture Collection University of Gothenburg (CCUG); Curators of the CCUG; CCUG 46279

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