todylaboratories®
Reference Strains

todylaboratories®
Internal Control

2027

REFERENCE STRAINS

& OTHER INTERNAL CONTROLS



www.todylaboratories.com

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Reference Strains

Main features of quality control bacterial and fungal strains offered by todylaboratories©:

• for internal quality control of microbiological tests, culture media and antimicrobial susceptibility determinations;

• microorganisms with well-documented and **stable phenotypic and genotypic characteristics**, traceable to NCTC and DSMZ reference cultures;

• have been selected and **recommended by expert bodies**, such as EUCAST and CLSI, on the basis of their suitability for monitoring test performance and ensuring the validity of results for testing in clinical, food, pharmaceutical, water and veterinary laboratories;

• **2 options** for the same microorganism in terms of price: **economic** and **premium** range:

- The rationale behind this is that we may offer our customers the possibility to choose themselves which product, from the different format/price range, fits better their needs.
- Clients that may be interested in an alternative can find it directly in our offer, without having to search for other suppliers.
- These products are being made for us by different manufacturers, with our brand, and so, for the same item, we may have different format, storage conditions, etc. and of course, different prices.

• designed for **long-term storage** as freeze-dried cells in order to minimize any phenotypic alterations caused by mutations;

• **individually packed** to avoid hydration and alteration;

• **easy to use** directly on the liquid medium or in saline water;

• **rigorously tested** to confirm the identity, essential phenotypic characteristics and to rule out possible contamination with other organisms.



First Generation

todylaboratories®

Reference Strains

MICROBIOLOGIC INTERNAL CONTROL

QUALITATIVE

	description
Acinetobacter baumanii	ATCC® 19606 / NCTC® 12156
Aspergillus brasiliensis	ATCC® 16404 / NCPF® 2275 / DSM® 1387, 1988
Bacillus cereus	ATCC® 9634 / NCTC® 10320 / DSM® 345
	ATCC® 10876 / NCTC® 7464
Bacillus subtilis	ATCC® 6633 / NCTC® 10400 / DSM® 347
Bacillus subtilis subsp spizizenii	ATCC® 6633 / NCTC® 10400 / DSM® 347
Bacteroides fragilis	ATCC® 25285 / NCTC® 9343
Burkholderia cepacia	ATCC® 17759 / NCTC® 10661
Burkholderia cepacia	ATCC® 25416
Campylobacter jejuni	ATCC® 29428 / NCTC® 11322
	ATCC® 33560 / NCTC® 11351
Candida albicans	ATCC® 2091 / NCPF® 3255
	ATCC® 10231 / NCPF® 3179 / DSM® 1386
	ATCC® 10231 / NCPF® 3179 / DSM® 1386
Candida guilliermondii	ATCC® 5276 / NCPF® 3099
Candida lusitaniae	NCPF® 3954
Candida tropicalis	NCPF® 3111
Citrobacter freundii	ATCC® 8090 / NCTC® 9750
Clostridium perfringens	ATCC® 13124 / NCTC® 8237 / DSM® 756
	ATCC® 13124 / NCTC® 8237 / DSM® 756
Clostridium sporogenes	ATCC® 19404 / NCTC® 532 / DSM® 1664
Enterobacter cloacae	NCTC® 13406
	ATCC® 23355 / NCTC® 13380
Enterococcus faecalis (Streptococcus faecalis)	ATCC® 19433 / NCTC® 775 / DSM® 20478
	ATCC® 29212 / NCTC® 12697 / DSM® 2570
	ATCC® 29212 / NCTC® 12697 / DSM® 2570
	ATCC® 51299 / NCTC® 13379
Enterococcus faecium	ATCC® 19434 / NCTC® 7171 / DSM® 20477
Enterococcus hirae	ATCC® 10541 / NCTC® 13383
Escherichia coli	ATCC® 25922 / NCTC® 12241 / DSM® 1106
	ATCC® 25922 / NCTC® 12241 / DSM® 1106
	ATCC® 35218 / NCTC® 11954
	NCTC® 13476
	ATCC® 10536 / NCTC® 10418
	ATCC® 8739 / NCTC® 12923 / DSM® 1576
	NCTC® 11560
	ATCC® 11775 / NCTC® 9001 / DSM® 30083
Escherichia coli (mcr-1)	NCTC® 13846
Escherichia coli O157 non-toxigenic	ATCC® 700728 / NCTC® 12900
Haemophilus influenzae	ATCC® 49247 / NCTC® 12699
	ATCC® 49766 / NCTC® 12975
	NCTC® 11931
	ATCC® 9334 / NCTC® 8468
Klebsiella aerogenes / Raoultella planticola	NCTC® 9528
Klebsiella aerogenes	ATCC® 13048 / NCTC® 10006
Klebsiella pneumoniae	ATCC® 13883 / NCTC® 9633 / DSM® 30104
	ATCC® 700603 / NCTC® 13368
	NCTC® 13438
	NCTC® 13440
	NCTC® 13442

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Reference Strains

	description
	NCTC® 13443
Lactobacillus brevis	ATCC® 8287 / NCTC® 13386
Legionella anisa	ATCC® 35292 / NCTC® 11974
Legionella pneumophila serogroup1, subsp. pneumophila	ATCC® 33152 / NCTC® 11192
Listeria innocua	ATCC® 33090 / NCTC® 11288 / DSM® 20649
Listeria ivanovii subsp. Ivanovii	ATCC® 19119 / NCTC® 11007 / DSM® 20750
Listeria monocytogenes	ATCC® 35152 / NCTC® 7973
	ATCC® 7644 / NCTC® 13372
	NCTC® 11994 / DSM® 15675
	ATCC® 13932 / NCTC® 10527
Micrococcus luteus (Micrococcus flavus)	ATCC® 10240
Mycobacterium smegmatis	ATCC® 19420 / NCTC® 8159
Neisseria gonorrhoea	ATCC® 19424 / NCTC® 8375
	ATCC® 49226 / NCTC® 12700
Pichia kudriavzevii (fost Candida krusei)	NCPF® 3100
Proteus mirabilis	NCTC® 11938 / DSM® 4479
	ATCC® 14153 / NCTC® 13376
	NCTC® 10975
Proteus vulgaris (P. hauseri)	ATCC® 13315 / NCTC® 4175
Pseudomonas aeruginosa	ATCC® 15442 / NCTC® 13359
	ATCC® 25668 / NCTC® 10662
	ATCC® 27853 / NCTC® 12903 / DSM® 1117
	ATCC® 27853 / NCTC® 12903 / DSM® 1117
Pseudomonas paraeruginosa (fost Pseudomonas aeruginosa)	ATCC® 9027 / NCTC® 12924 / DSM® 1128
Rhodococcus hoagii (fost Rhodococcus equi)	ATCC® 6939 / NCTC® 1621
Saccharomyces cerevisiae	ATCC® 9763 / NCTC® 10716 / DSM® 1333
	NCPF® 3178
Salmonella enterica serovar enteritidis	ATCC® 13076/ NCTC® 12694 / DSM® 9898
Salmonella nottingham	NCTC® 7832
Salmonella poona	NCTC® 4840
Salmonella typhimurium	ATCC® 14028 / NCTC® 12023 / DSM® 19587
	ATCC® 14028 / NCTC® 12023 / DSM® 19587
Serratia marcescens	ATCC® 8100 / NCTC® 13382
Shigella sonnei	ATCC® 29930 / NCTC® 12984
Staphylococcus aureus	ATCC® 25923 / NCTC® 12981 / DSM® 1104
	ATCC® 25923 / NCTC® 12981 / DSM® 1104
	ATCC® 29213 / NCTC® 12973
	ATCC® 29213 / NCTC® 12973
	ATCC® 6538P / NCTC® 7447
	ATCC® 6538 / NCTC® 10788 / DSM® 799
	ATCC® 9144 / NCTC® 6571
Staphylococcus aureus (MRSA)	ATCC® 43300 / NCTC® 13373
	NCTC® 12493
Staphylococcus epidermidis	ATCC® 12228 / NCTC® 13360
Streptococcus agalactiae	ATCC® 13813 / NCTC® 8181
Streptococcus dysgalactiae subsp. Equisimilis	NCTC® 13762
Streptococcus pneumoniae	ATCC® 6303 / NCTC® 12695
	ATCC® 49619 / NCTC® 12977
Streptococcus pyogenes (Streptococ beta-hemolitic group A)	ATCC® 19615 / NCTC® 12696
Vibrio parahaemolyticus	NCTC® 10885
Yersinia enterocolitica	ATCC® 9610 / NCTC® 12982

todylaboratories®

Internal Control

Main features of erythrocytes control materials offered by todylaboratories©:

- Blood transfusion can be fatal if incorrectly administered and ABO incompatibilities are the major cause of fatal transfusion reactions. Thus, ABO typing is the first and most important pretransfusion test and it has to be performed in two steps.
- In the first step, called forward typing, the patient's blood is mixed with serum that contains monoclonal antibodies against type A, B or AB erythrocytes. The determination of the blood type is based on whether or not the blood clots in presence of these sera. In reverse typing, the second step, the patient's plasma/serum is mixed with erythrocytes of known type. Again, clot formation is used to determine the blood type.
- The quality of our erythrocytes controls is continuously assessed by our quality managers, based on proven competence acquired.

Main features of internal quality control materials offered by todylaboratories©:

- use of internal control material is mandatory in order to meet the ISO 15189:2012 requirements;
- **tody**laboratories© offers **multi-analyte** controls providing logistical and economic advantages by using 1 control material for various assays;
- control material is either **lyophilised** or **liquid stable** depending on the analytes contained;
- each material is supplied in at least **2 concentration levels**, spanning the entire clinical range.



todylaboratories®

Internal Control

INTERNAL CONTROL

	ml	code
Chemistry Control, Level 2, 1x5 ml	5	L35IC1003
Chemistry Control, Level 3, 1x5 ml	5	L35IC1004
Assayed Chemistry Control, Level 1, lyophilized, 2ml	2	L82IC1001
Assayed Chemistry Control, Level 2, lyophilized, 2ml	2	L82IC1002
Calibration serum, 1x3ml	3	L23IC1030
Lipid Control, Level 1, liquid stable, 3x1ml	3	L23IC1052
Lipid Control, Level 2, liquid stable, 3x1ml	3	L23IC1053
Microalbumin Control, Level 1 & 2, liquid ready to use, 6x1ml	6	L35IC1021
Protein Control, Level 1, liquid, 1ml	1	L82IC1003
Protein Control, Level 2, liquid, 1ml	1	L82IC1004
Protein Control, Level 3, liquid, 1ml	1	L82IC1005
Protein Control - Specific, Level 1, lyofilized, 1x1ml	1	L35IC1012
Protein Control - Specific, Level 2, lyofilized, 1x1ml	1	L35IC1013
Protein Control - Specific, Level 3, lyofilized, 1x1ml	1	L35IC1014
Coagulation Control, Level 1, lyophilized, 1ml	1	L82IC1006
Coagulation Control, Level 2, lyophilized, 1ml	1	L82IC1007
Coagulation Control, Level 3, lyophilized, 1ml	1	L82IC1008
HAV IgG Control , Positive, liquid/lyophilized, 0,5ml	0,5	L82IC1020
HAV IgM Control , Positive, liquid/lyophilized, 0,5ml	0,5	L82IC1021
HAV Ig + IgM Control, Negative, liquid/lyophilized, 0,5ml	0,5	L82IC1022
HBs Ag Control , Positive, liquid/lyophilized, 0,5ml	0,5	L82IC1012
HCV Control, Positive, liquid/lyophilized, 0,5ml	0,5	L82IC1013
HIV Type 1+2 antibodies Control I, Positive, liquid/lyophilized, 0.5ml	0,5	L82IC1025
HbA1c Control, Level Low, lyofilized, 2x0,5ml	1	L23IC1068
HbA1c Control, Level High, lyofilized, 2x0,5ml	1	L23IC1067
HbA1c Control, Level Low & High, Set, lyofilized, 2x2x0,5ml	2	L23IC1069
HbA1c Control, Level 1, lyophilized, 0,5ml	0,5	L82IC1023
HbA1c Control, Level 2, lyophilized, 0,5ml	0,5	L82IC1024
HbA1c Control, Level Low & High, Set, lyofilized, 2x2x0,5ml	2	L35IC1011
ESR Control, Level 1, 2x10ml	20	L23IC1080
ESR Control, Level 2, 2x10ml	20	L23IC1081
Immunoassay Control Level 1, lyofilized, 1x5ml	5	L35IC1005
Immunoassay Control Level 2, lyofilized, 1x5ml	5	L35IC1006
Immunoassay Control Level 3, lyofilized, 1x5ml	5	L35IC1007
Immunoassay Control, Level 1, lyophilized, 2ml	2	L82IC1009
Immunoassay Control, Level 2, lyophilized, 2ml	2	L82IC1010
Immunoassay Control, Level 3, lyophilized, 2ml	2	L82IC1011
Immunoassay Control, Level 1 + Level 2, Specialty, lyofilized, 2x2ml	4	L35IC1008-1+2
Tumor Marker Control, Level 1, 5x2ml	10	L23IC1085
Tumor Marker Control, Level 2, 5x2ml	10	L23IC1086
Anti SARS-CoV-2 Control, liquid ready to use, 2x2x4ml	16	L35IC1001
Helicobacter Pylori Ab Control , Positive, liquid/lyophilized, 0,5ml	0,5	L82IC1016
Helicobacter Pylori Ab Control, Negative, liquid/lyophilized, 0,5ml	0,5	L82IC1017
Serology Control, Negative, liquid ready to use, 6x5ml	30	L35IC1015

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Internal Control

	ml	code
Serology Control, Positive, Level 1, liquid ready to use, 3x5ml	15	L35IC1016
Serology Control, Positive, Level 3, liquid ready to use, 3x5ml	15	L35IC1017
Syphilis serology Control, Positive, liquid/lyophilized, 0,5ml	0,5	L82IC1018
Syphilis serology Control, Negative, liquid/lyophilized, 0,5ml	0,5	L82IC1019
TORCH IgG Control, Positive, liquid/lyophilized, 1ml	1	L82IC1014
TORCH IgM Control, Positive, liquid/lyophilized, 1ml	1	L82IC1026
TORCH Control, Negative, liquid/lyophilized, 1ml	1	L82IC1015
ToRCH Control, Negative, liquid ready to use, 6x5ml	30	L35IC1018
ToRCH IgG Control, Positive, liquid ready to use, 3x5ml	15	L35IC1019
ToRCH IgM Control, Positive, liquid ready to use, 3x5ml	15	L35IC1020
	5	C15TR1005
	5	C15TR1006
	5	C15TR1007
	5	C15TR1008
HIV - for rapid tests Control Positive, liquid, 1x1ml	1	L62IC1001
HIV - for rapid tests Control Negative, liquid, 1x1ml	1	L62IC1002
HCV - for rapid tests Control Positive, liquid, 1x1ml	1	L62IC1003
HCV - for rapid tests Control Negative, liquid, 1x1ml	1	L62IC1004
HBsAg - for rapid tests Control Positive, liquid, 1x1ml	1	L62IC1005
HBsAg - for rapid tests Control Negative, liquid, 1x1ml	1	L62IC1006
Helicobacter Pylori Ab - for rapid tests Control Positive, swab	1	L62IC1015
Helicobacter Pylori Ab - for rapid tests Control Negative, swab	1	L62IC1016
Helicobacter Pylori Ag - for rapid tests Control Positive, swab	1	L62IC1007
Helicobacter Pylori Ag - for rapid tests Control Negative, swab	1	L62IC1008
Clostridium Difficile - for rapid tests Control Positive, swab	1	L62IC1009
Clostridium Difficile - for rapide test Control Negative, swab	1	L62IC1010
FOB, Faecal Occult Blood - for rapid tests Control, Positive, swab	1	L62IC1011
FOB, Faecal Occult Blood - for rapid tests Control Negative, swab	1	L62IC1012
Giardia lamblia - Control Positive, lichid, 1x1ml	1	L62IC1017
Giardia lamblia - Control Negative, lichid, 1x1ml	1	L62IC1018
Syphilis/Sifilis Ac - Control Positive, lichid, 1x1ml	1	L62IC1013
Syphilis/Sifilis Ac - Control Negative, lichid, 1x1ml	1	L62IC1014
Urine Assayed Control, Level 1, 1x10ml	10	L23IC1078
Urine Assayed Control, Level 2, 1x10ml	10	L23IC1079
Urine Assayed Control, Level 2, 1x10ml	10	L35IC1022
Urine Assayed Control, Level 3, 1x10ml	10	L35IC1023
Urine Control for Strips, Level 1 + Level 2, Set, manual methods, 2 vials x 12ml	24	L35IC1002
Urine control for strips - set: Level 1 and Level 2, manual methods, 2 vials x 15ml, vial without dropper	30	L49IC1002



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Responsible diagnostic. Since 1993.

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