



Reference Strains

Erythrocytes Control

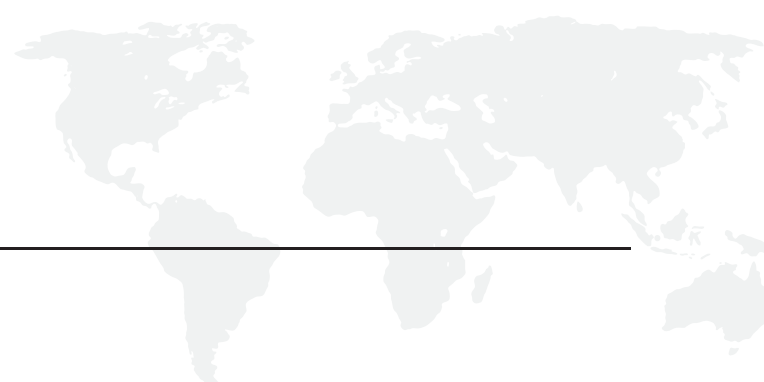
Internal Control

2025

REFERENCE STRAINS ERYTHROCYTES CONTROL & OTHER INTERNAL CONTROLS



www.todylaboratories.com



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



MICROBIOLOGIC INTERNAL CONTROL

QUALITATIVE

Acinetobacter baumannii
Aspergillus brasiliensis
Bacillus cereus

Bacillus subtilis
Bacillus subtilis subsp spizizenii
Bacteroides fragilis
Burkholderia cepacia
Burkholderia cepacia
Campylobacter jejuni

Candida albicans

Candida guilliermondii
Candida lusitanae
Candida tropicalis
Citrobacter freundii
Clostridium perfringens

Clostridium sporogenes
Enterobacter cloacae

Enterococcus faecalis (Streptococcus faecalis)

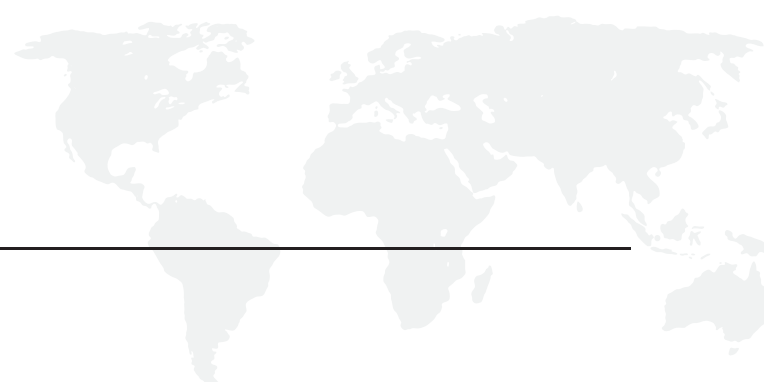
Enterococcus faecium
Enterococcus hirae
Escherichia coli

Escherichia coli (mcr-1)
Escherichia coli O157 non-toxigenic
Haemophilus influenzae

Klebsiella aerogenes / Raoultella planticola
Klebsiella aerogenes
Klebsiella pneumoniae

description

ATCC® 19606 / NCTC® 12156
 ATCC® 16404 / NCPF® 2275 / DSM® 1387, 1988
 ATCC® 9634 / NCTC® 10320 / DSM® 345
 ATCC® 10876 / NCTC® 7464
 ATCC® 6633 / NCTC® 10400 / DSM® 347
 ATCC® 6633 / NCTC® 10400 / DSM® 347
 ATCC® 25285 / NCTC® 9343
 ATCC® 17759 / NCTC® 10661
 ATCC® 25416
 ATCC® 29428 / NCTC® 11322
 ATCC® 33560 / NCTC® 11351
 ATCC® 2091 / NCPF® 3255
 ATCC® 10231 / NCPF® 3179 / DSM® 1386
 ATCC® 10231 / NCPF® 3179 / DSM® 1386
 ATCC® 5276 / NCPF® 3099
 NCPF® 3954
 NCPF® 3111
 ATCC® 8090 / NCTC® 9750
 ATCC® 13124 / NCTC® 8237 / DSM® 756
 ATCC® 13124 / NCTC® 8237 / DSM® 756
 ATCC® 19404 / NCTC® 532 / DSM® 1664
 NCTC® 13406
 ATCC® 23355 / NCTC® 13380
 ATCC® 19433 / NCTC® 775 / DSM® 20478
 ATCC® 29212 / NCTC® 12697 / DSM® 2570
 ATCC® 29212 / NCTC® 12697 / DSM® 2570
 ATCC® 51299 / NCTC® 13379
 ATCC® 19434 / NCTC® 7171 / DSM® 20477
 ATCC® 10541 / NCTC® 13383
 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
 NCTC® 13846
 ATCC® 700728 / NCTC® 12900
 ATCC® 49247 / NCTC® 12699
 ATCC® 49766 / NCTC® 12975
 NCTC® 11931
 ATCC® 9334 / NCTC® 8468
 NCTC® 9528
 ATCC® 13048 / NCTC® 10006
 ATCC® 13883 / NCTC® 9633 / DSM® 30104
 ATCC® 700603 / NCTC® 13368
 NCTC® 13438
 NCTC® 13440
 NCTC® 13442



Lactobacillus brevis
Legionella anisa
Legionella pneumophila serogroup 1, subsp. pneumophila
Listeria innocua
Listeria ivanovii subsp. Ivanovii
Listeria monocytogenes

Micrococcus luteus (Micrococcus flavus)
Mycobacterium smegmatis
Neisseria gonorrhoea

Pichia kudriavzevii (fost Candida krusei)
Proteus mirabilis

Proteus vulgaris (P. hauseri)
Pseudomonas aeruginosa

Pseudomonas paraaeruginosa (fost Pseudomonas aeruginosa)
Rhodococcus hoagii (fost Rhodococcus equi)
Saccharomyces cerevisiae

Salmonella enterica serovar enteritidis
Salmonella nottingham
Salmonella poona
Salmonella typhimurium

Serratia marcescens
Shigella sonnei
Staphylococcus aureus

Staphylococcus aureus (MRSA)

Staphylococcus epidermidis
Streptococcus agalactiae
Streptococcus dysgalactiae subsp. Equisimilis
Streptococcus pneumoniae

Streptococcus pyogenes (Streptococ beta-hemolytic group A)
Vibrio parahaemolyticus
Yersinia enterocolitica

description

NCTC® 13443
 ATCC® 8287 / NCTC® 13386
 ATCC® 35292 / NCTC® 11974
 ATCC® 33152 / NCTC® 11192
 ATCC® 33090 / NCTC® 11288 / DSM® 20649
 ATCC® 19119 / NCTC® 11007 / DSM® 20750
 ATCC® 35152 / NCTC® 7973
 ATCC® 7644 / NCTC® 13372
 NCTC® 11994 / DSM® 15675
 ATCC® 13932 / NCTC® 10527
 ATCC® 10240
 ATCC® 19420 / NCTC® 8159
 ATCC® 19424 / NCTC® 8375
 ATCC® 49226 / NCTC® 12700
 NCPF® 3100
 NCTC® 11938 / DSM® 4479
 ATCC® 14153 / NCTC® 13376
 NCTC® 10975
 ATCC® 13315 / NCTC® 4175
 ATCC® 15442 / NCTC® 13359
 ATCC® 25668 / NCTC® 10662
 ATCC® 27853 / NCTC® 12903 / DSM® 1117
 ATCC® 27853 / NCTC® 12903 / DSM® 1117
 ATCC® 9027 / NCTC® 12924 / DSM® 1128
 ATCC® 6939 / NCTC® 1621
 ATCC® 9763 / NCTC® 10716 / DSM® 1333
 NCPF® 3178
 ATCC® 13076 / NCTC® 12694 / DSM® 9898
 NCTC® 7832
 NCTC® 4840
 ATCC® 14028 / NCTC® 12023 / DSM® 19587
 ATCC® 14028 / NCTC® 12023 / DSM® 19587
 ATCC® 8100 / NCTC® 13382
 ATCC® 29930 / NCTC® 12984
 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
 ATCC® 43300 / NCTC® 13373
 NCTC® 12493
 ATCC® 12228 / NCTC® 13360
 ATCC® 13813 / NCTC® 8181
 NCTC® 13762
 ATCC® 6303 / NCTC® 12695
 ATCC® 49619 / NCTC® 12977
 ATCC® 19615 / NCTC® 12696
 NCTC® 10885
 ATCC® 9610 / NCTC® 12982



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 through the following accreditations: ISO 9001, 151189, 17043 & 13485.

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;
- todylaboratories® 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.



INTERNAL CONTROL / ERYTHROCYTES 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, lyophilized, 1x1ml	1	L35IC1012
Protein Control - Specific, Level 2, lyophilized, 1x1ml	1	L35IC1013
Protein Control - Specific, Level 3, lyophilized, 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, lyophilized, 2x0,5ml	1	L23IC1068
HbA1c Control, Level High, lyophilized, 2x0,5ml	1	L23IC1067
HbA1c Control, Level Low & High, Set, lyophilized, 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, lyophilized, 2x2x0,5ml	2	L35IC1011
ESR Control, Level 1, 2x10ml	20	L23IC1080
ESR Control, Level 2, 2x10ml	20	L23IC1081
Immunoassay Control Level 1, lyophilized, 1x5ml	5	L35IC1005
Immunoassay Control Level 2, lyophilized, 1x5ml	5	L35IC1006
Immunoassay Control Level 3, lyophilized, 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, lyophilized, 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

	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
Erythrocytes Control group A1, fl x5ml (100 tests)	5	C15TR1005
Erythrocytes Control group A2, fl x5ml (100 tests)	5	C15TR1006
Erythrocytes Control group O, fl x5ml (100 tests)	5	C15TR1007
Erythrocytes Control group B, fl x5ml (100 tests)	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



🏢 **Tody Laboratories Int. SRL**
🏠 22 Vadul Moldovei, s1, OP 18
Bucharest, CP 014033, ROMANIA
📞 ISO 15189, 17043, 9001, 13485
🌐 www.todylaboratories.com

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