

Reference Strains Erythrocytes Control & other Internal Controls



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 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 (characterized microbiologically):
 - 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;
- **rigorously tested** to confirm the identity, essential phenotypic characteristics and to rule out possible contamination with other organisms.



MICROBIOLOGIC INTERNAL CONTROL	description	code
Aspergillus brasiliensis	ATCC® 16404 / NCPF® 2275	L37RS1001-10
Aspergillus brasiliensis (Asp. Niger)	ATCC® 16404 / ISM® 73/34	L27RS1007
Aspergillus flavus	ATCC® 9643 / ISM® 68/105	L27RS1006
Bacillus cereus	ATCC® 9634 / NCTC® 10320	L37RS1076-10
	ATCC® 10876 / NCTC® 7464	L37RS1002-10
	ATCC® 10876 / ISM® 66/86	L27RS1010
	ATCC® 11778 / NCTC® 10320 / ISM® 66/10	L27RS1009
Bacillus cereus K250	NCTC® 10989 / ISM® 99/10	L27RS1008
Bacillus pumilus	ATCC® 14884 / NCTC® 8241 / ISM® 73/26	L27RS1068
Bacillus subtilis	ATCC® 6633 / NCTC® 10400	L37RS1003-10
	ATCC® 6633 / ISM® 68/53	L27RS1012
Bacteroides fragilis	ATCC® 25285 / NCTC® 9343	L37RS1004-10
Bordetella bronchiseptica	ATCC® 4617 / NCTC® 8344 / ISM® 68/55	L27RS1013
Brevundimonas diminuta (Pseudomonas diminuta)	ATCC® 19146 / ISM® 76/86	L27RS1076
Burkholderia cepacia	ATCC® 17759 / NCTC® 10661	L37RS1075-10
Campylobacter jejuni	ATCC® 29428 / NCTC® 11322	L37RS1005-10
	ATCC® 33560 / NCTC® 11351	L37RS1065-10
Candida albicans	ATCC® 2091 / NCPF® 3255	L37RS1006-10
	ATCC® 10231 / NCPF® 3179	L37RS1007-10
	ATCC® 10231 / NCPF® 3179 / ISM® 76/32	L27RS1004
Candida glabrata	ATCC® 2001 / NCPF® 3309	L37RS1088-10
Candida guilliermondii	ATCC® 5276 / NCPF® 3099	L37RS1089-10
Candida krusei	ATCC® 6258 / NCPF® 3953	L37RS1067-10
Candida lusitanae	NCPF® 3954	L37RS1090-10
Candida parapsilosis	ATCC® 22019 / NCPF® 8334	L37RS1087-10
Candida tropicalis	ATCC® 44508 / NCPF® 3290	L37RS1091-10
	ATCC® 1369 / ISM® 74/5	L27RS1016
Citrobacter freundii	ATCC® 8090 / NCTC® 9750	L37RS1008-10
Clostridium perfringens	ATCC® 13124 / NCTC® 8237	L37RS1009-10
Clostridium sporogenes	ATCC® 19404 / NCTC® 532	L37RS1010-10
Enterobacter aerogenes	ATCC® 13048 / NCTC® 10006	L37RS1011-10
	ATCC® 13048 / NCTC® 10006 / ISM® 82/33	L27RS1017
Enterobacter cloacae	NCTC® 13406	L37RS1078-10
	ATCC® 23355 / NCTC® 13380	L37RS1012-10
	ATCC® 23355 / ISM® 80/104	L27RS1018
Enterobacter faecalis (Streptococcus faecalis)	ATCC® 19433 / NCTC® 775 / ISM® 78/85	L27RS1019
	ATCC® 29212 / ISM® 83/82	L27RS1020
Enterococcus faecalis	ATCC® 19433 / NCTC® 775	L37RS1013-10
	ATCC® 29212 / NCTC® 12697	L37RS1014-10
	ATCC® 51299 / NCTC® 13379	L37RS1015-10
Enterococcus hirae	ATCC® 10541 / NCTC® 13383	L37RS1016-10
Escherichia coli	ATCC® 25922 / NCTC® 12241	L37RS1017-10
	ATCC® 25922 / NCTC® 12241 / ISM® 76/11	L27RS1001
	ATCC® 35218 / NCTC® 11954	L37RS1018-10
	NCTC® 13476	L37RS1068-10
	ATCC® 10536 / NCTC® 10418	L37RS1019-10
	ATCC® 10536 / NCTC® 10418 / ISM® 67/3	L27RS1022

	description	code
Escherichia coli	ATCC® 10799 / ISM® 79/6	L27RS1025
	ATCC® 8739 / NCTC® 12923	L37RS1020-10
	ATCC® 8739 / ISM® 76/31	L27RS1024
	NCTC® 11560	L37RS1021-10
	ATCC® 11775 / NCTC® 9001	L37RS1022-10
	NCTC® 13846	L37RS1084-10
	ATCC® 700728 / NCTC® 12900	L37RS1023-10
	ATCC® 43895 / ISM® 96/01	L27RS1112
	ATCC® 14018 / ISM® 80/79	L27RS1026
	ATCC® 49247 / NCTC® 12699	L37RS1024-10
	ATCC® 49766 / NCTC® 12975	L37RS1069-10
	NCTC® 11931	L37RS1025-10
	ATCC® 9334 / NCTC® 8468	L37RS1026-10
Klebsiella aerogenes Klebsiella pneumoniae	NCTC® 9528	L37RS1027-10
	ATCC® 13883 / NCTC® 9633	L37RS1028-10
	ATCC® 700603 / NCTC® 13368	L37RS1029-10
	NCTC® 13438	L37RS1070-10
	NCTC® 13440	L37RS1071-10
	NCTC® 13442	L37RS1073-10
	NCTC® 13443	L37RS1072-10
	ATCC® 8287 / NCTC® 13386	L37RS1030-10
	ATCC® 4797 / ISM® 70/75	L27RS1120
	ATCC® 7469 / NCTC® 6375 / ISM® 68/46	L27RS1116
	ATCC® 9595 / NCTC® 7473 / ISM® 71/116	L27RS1027
	ATCC® 35292 / NCTC® 11974	L37RS1077-10
	ATCC® 33152 / NCTC® 11192	L37RS1031-10
ATCC® 8293 / ISM® 68/104	L27RS1029	
ATCC® 33090 / NCTC® 11288	L37RS1032-10	
ATCC® 33090 / ISM® 99/12	L27RS1033	
ATCC® 19119 / NCTC® 11007	L37RS1082-10	
ATCC® 19119 / NCTC® 11846 / ISM® 99/13	L27RS1034	
ATCC® 35152 / NCTC® 7973	L37RS1033-10	
ATCC® 7644 / NCTC® 13372	L37RS1034-10	
ATCC® 7644 / ISM® 99/14	L27RS1030	
ATCC® NCTC® 11994	L37RS1035-10	
ATCC® 13932 / NCTC® 10527	L37RS1066-10	
ATCC® 13932 / ISM® 80/27	L27RS1032	
ATCC® 19115 / ISM 80/22	L27RS1031	
	L37EQ1099-10	
Mycobacterium smegmatis	ATCC® 19424 / NCTC® 8375	L37RS1036-05
Neisseria gonorrhoea	NCTC® 12700 / 49226	L37RS1037-05
Propionibacterium acnes (Corynebact. acnes) Proteus mirabilis	ATCC® 6921 / NCTC® 4311 / ISM® 77/55	L27RS1039
	ATCC® 15146 / ISM® 75/15	L27RS1040
	NCTC® 11938	L37RS1079-10
	ATCC® 14153 / NCTC® 13376	L37RS1038-10
	NCTC® 10975	L37RS1039-10
	ATCC® 6380 / ISM® 69/45	L27RS1041
	ATCC® 13315 / NCTC® 4175	L37RS1040-10
Proteus vulgaris		

	description	code
Proteus vulgaris (P. hauseri)	ATCC® 13315 / ISM® 78/15	L27RS1042
	ATCC® 9027 / NCTC® 12924	L37RS1042-10
Pseudomonas aeruginosa	ATCC® 9027 / ISM® 73/36	L27RS1044
	ATCC® 15442 / NCTC® 13359	L37RS1043-10
	ATCC® 17423 / ISM® 74/2	L27RS1045
	ATCC® 25668 / NCTC® 10662	L37RS1044-10
	ATCC® 27853 / NCTC® 12903	L37RS1041-10
	ATCC® 27853 / NCTC® 12903 / ISM® 76/12	L27RS1002
Rhodococcus equi	ATCC® 6939 / NCTC® 1621	L37RS1045-10
	ATCC® 6939 / ISM® 99/15	L27RS1046
Saccharomyces cerevisiae	ATCC® 9763 / NCTC® 10716	L37RS1074-10
	ATCC® 9763 / ISM® 68/119	L27RS1047
	NCPF® 3178	L37RS1046-10
	ATCC® 13076 / NCTC® 12694	L37RS1080 -10
Salmonella enterica serovar enteritidis	NCTC® 6017 / ISM® 83/37	L27RS1048
Salmonella enterica subsp. Enterica serotype abony	NCTC® 7832	L37RS1047-10
Salmonella nottingham	NCTC® 4840	L37RS1048-10
Salmonella poona	ATCC® 14028 / NCTC® 12023	L37RS1049-10
Salmonella typhimurium	ATCC® 14028 / ISM® 80/8	L27RS1005
Salmonella enterica subsp. Ent. serotype typhimurium	ATCC® 9341 / ISM® 68/190	L27RS1049
Sarcina lutea (Micrococcus luteus)	ATCC® 8100 / NCTC® 13382	L37RS1050-10
Serratia marcescens	ATCC® 13880 / ISM® 80/9	L27RS1050
Shigella sonnei	ATCC® 29930 / NCTC® 12984	L37RS1085-10
	ATCC® 25931 / ISM® 83/44	L27RS1051
		L27RS1174
	ATCC® 25923 / NCTC® 12981	L37RS1051-10
Staphylococcus aureus	ATCC® 25923 / NCTC® 12981 / ISM® 76/10	L27RS1003
	ATCC® 29213 / NCTC® 12973	L37RS1052-10
	ATCC® 29213 / ISM® 75/80	L27RS1053
	ATCC® 6538P / NCTC® 7447	L37RS1053-10
	ATCC® 6538 / NCTC® 10788	L37RS1054-10
	ATCC® 6538 / ISM® 68/14	L27RS1052
	ATCC® 9144 / NCTC® 6571	L37RS1056-10
	ATCC® 43300 / NCTC® 13373	L37RS1057-10
Staphylococcus aureus (MRSA)	NCTC® 12493	L37RS1055-10
Staphylococcus epidermidis	ATCC® 12228 / NCTC® 13360	L37RS1058-10
	ATCC® 12228 / ISM® 66/25	L27RS1054
Streptococcus agalactiae	ATCC® 13813 / NCTC® 8181	L37RS1059-10
	NCTC® 13762	L37RS1086-10
Streptococcus dysgalactiae subsp. Equisimilis	ATCC® 6303 / NCTC® 12695	L37RS1060-10
Streptococcus pneumoniae	ATCC® 49619 / NCTC® 12977	L37RS1061-10
	ATCC® 19615 / NCTC® 12696	L37RS1062-10
Streptococcus pyogenes	ATCC® 19615 / ISM® 03/01	L27RS1055
	ATCC® 12347 / ISM® 68/239	L27RS1056
(Streptococ beta-hemolytic group A)	ATCC® 12387 / ISM® 68/281	L27RS1188
	NCTC® 10885	L37RS1063-10
Streptococcus sp. Group B	ATCC® 9610 / NCTC® 12982	L37RS1064-10
Vibrio parahaemolyticus	ATCC® 23715 / NCTC® 10598 / ISM® 78/69	L27RS1057
Yersinia enterocolitica		

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.



ERYTHROCYTES CONTROL/INTERNAL CONTROL

	analytes no.	code
ASO, CRP, RF, Control, level 1 liquid stable - 1ml	3	L58IC1001
ASO, CRP, RF, Control, level 2 liquid stable - 1ml	3	L58IC1002
ASO, CRP, RF, Control, level 3 liquid stable - 1ml	3	L58IC1003
Cardiac Control Level 1 liquid stable - 1ml	9	L58IC1004
Cardiac Control Level 2 liquid stable - 1ml	9	L58IC1005
Cardiac Control Level 3 liquid stable - 1ml	9	L58IC1006
Chemistry Control (Human Assayed), Level 1 lyophilized, 1x5ml	68	L58IC1007
Chemistry Control (Human Assayed), Level 2 lyophilized, 1x5ml	68	L58IC1008
Lipid Control, level 1 liquid stable - 1ml	6	L58IC1009
Lipid Control, level 2 liquid stable - 1ml	6	L58IC1010
Lipid Control Bilevel liquid stable - 2x1ml	6	L58IC1011
Microalbumin Control, Level 1 liquid stable - 1ml	3	L58IC1012
Microalbumin Control, Level 2 liquid stable - 1ml	3	L58IC1013
Microalbumin Control Bilevel liquid stable - 2x1ml	3	L58IC1014
Serum Protein Control Level 1 liquid stable - 1ml	23	L58IC1015
Serum Protein Control Level 2 liquid stable - 1ml	23	L58IC1016
Serum Protein Control Level 3 liquid stable - 1ml	23	L58IC1017
Vitamin D, Control, Level 1 1ml	1	L58IC1036
Vitamin D, Control, Level 2 1ml	1	L58IC1037
Plasma Control, Level 1 lyophilized - 1ml	4	L58IC1018
Plasma Control, Level 2 lyophilized - 1ml	4	L58IC1019
HbA1c Control, Level 1 lyophilized - 0,5ml	1	L58IC1020
HbA1c Control, Level 2 lyophilized - 0,5ml	1	L58IC1021
ESR Control, Level 1 liquid stable - 5ml	3	L58IC1022
ESR Control, Level 2 liquid stable - 5ml	3	L58IC1023
ESR Control, Level 3 liquid stable - 5ml	3	L58IC1024
Immunoassay Control Level 1 lyophilized, 1x5ml	57	L58IC1025
Immunoassay Control Level 2 lyophilized, 1x5ml	57	L58IC1026
Immunoassay Control Level 3 lyophilized, 1x5ml	57	L58IC1027
Tumor Marker Control, Level 1 liquid stable - 1ml	9	L58IC1028
Tumor Marker Control, Level 2 liquid stable - 1ml	9	L58IC1029
Tumor Marker Control, Level 3 liquid stable - 1ml	9	L58IC1030
Erythrocytes Control group A1 fl x10ml (200 tests)	-	C15TR1001
Erythrocytes Control group A2 fl x10ml (200 tests)	-	C15TR1002
Erythrocytes Control group O fl x10ml (200 tests)	-	C15TR1003
Erythrocytes Control group B fl x10ml (200 tests)	-	C15TR1004
Urine Chemistry Control, Level 1 for chemistry analyzers liquid, 1x10ml	19	L58IC1031
Urine Chemistry Control, Level 2 for chemistry analyzers liquid, 1x10ml	19	L58IC1032
Urine Chemistry Control, Bilevel 2 for chemistry analyzers liquid, 2x10ml	19	L58IC1033
Urine control for strips - set: Level 1 and Level 2 manual methods, 2 vials x 25ml, vial with dropper	13	L49IC1001
Urine control for strips - set: Level 1 and Level 2 manual methods, 2 vials x 15ml, vial without dropper	13	L49IC1002
Urine Strip Control Level 1 for urine strips liquid stable, 12ml	10	L58IC1034
Urine Strip Control Level 2 for urine strips liquid stable, 12ml	10	L58IC1035



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📞 ISO 15189, 17043, 9001, 13485
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