



Reference Strains

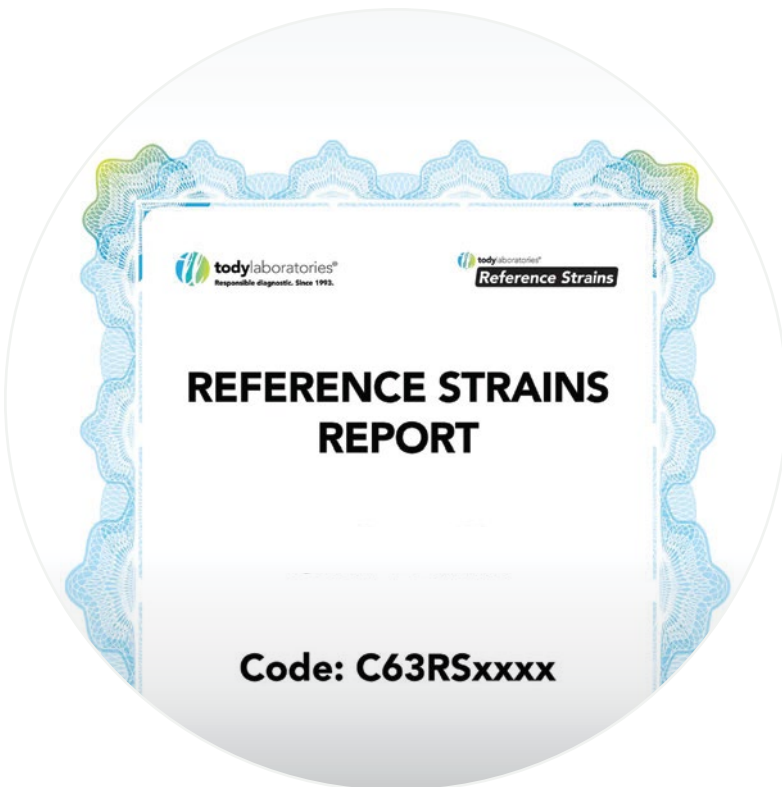
Erythrocytes Control

Internal Control

2024

REFERENCE STRAINS

ERYTHROCYTES CONTROL & OTHER INTERNAL CONTROLS



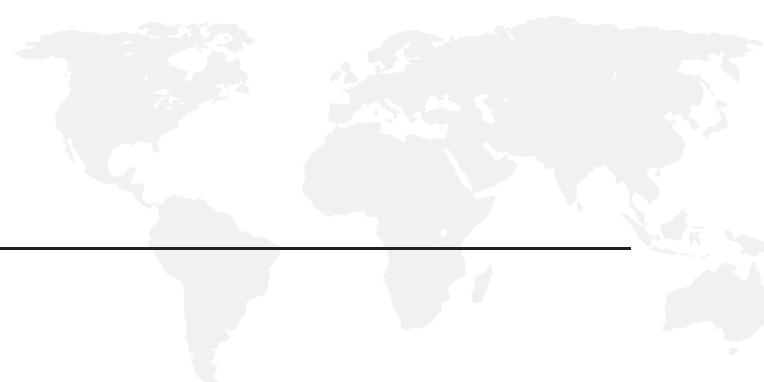
www.todylaboratories.com

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;
- **36 months validity**;
- **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

Bacteroides fragilis
Burkholderia cepacia
Campylobacter jejuni

Candida albicans

Candida guilliermondii
Candida krusei
Candida lusitanae
Candida tropicalis
Citrobacter freundii
Clostridium perfringens

Clostridium sporogenes
Enterobacter cloacae

Enterococcus faecalis (Streptococcus faecalis)

Enterococcus faecium
Enterococcus hirae
Escherichia coli

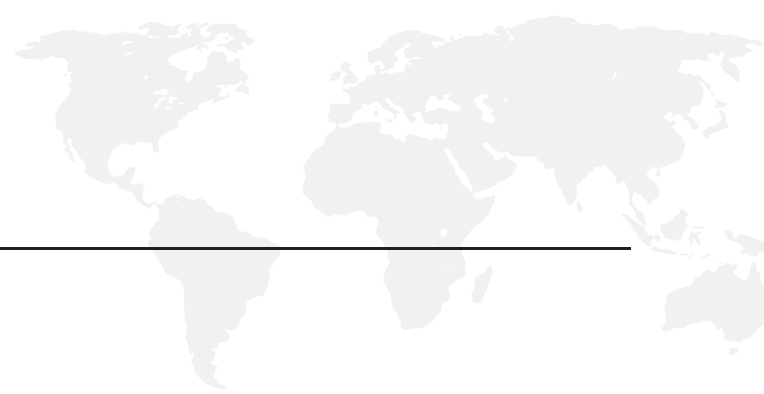
Escherichia coli (mcr-1)
Escherichia coli O157 non-toxigenic
Haemophilus influenzae

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® 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® 3100
 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





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

Mycobacterium smegmatis
Neisseria gonorrhoea

Proteus mirabilis

Proteus vulgaris (P. hauseri)
Pseudomonas aeruginosa

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® 13442
 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® 19420 / NCTC® 8159
 ATCC® 19424 / NCTC® 8375
 ATCC® 49226 / NCTC® 12700
 NCTC® 11938 / DSM® 4479
 ATCC® 14153 / NCTC® 13376
 NCTC® 10975
 ATCC® 13315 / NCTC® 4175
 ATCC® 9027 / NCTC® 12924 / DSM® 1128
 ATCC® 15442 / NCTC® 13359
 ATCC® 25668 / NCTC® 10662
 ATCC® 27853 / NCTC® 12903 / DSM® 1117
 ATCC® 27853 / NCTC® 12903 / DSM® 1117
 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.

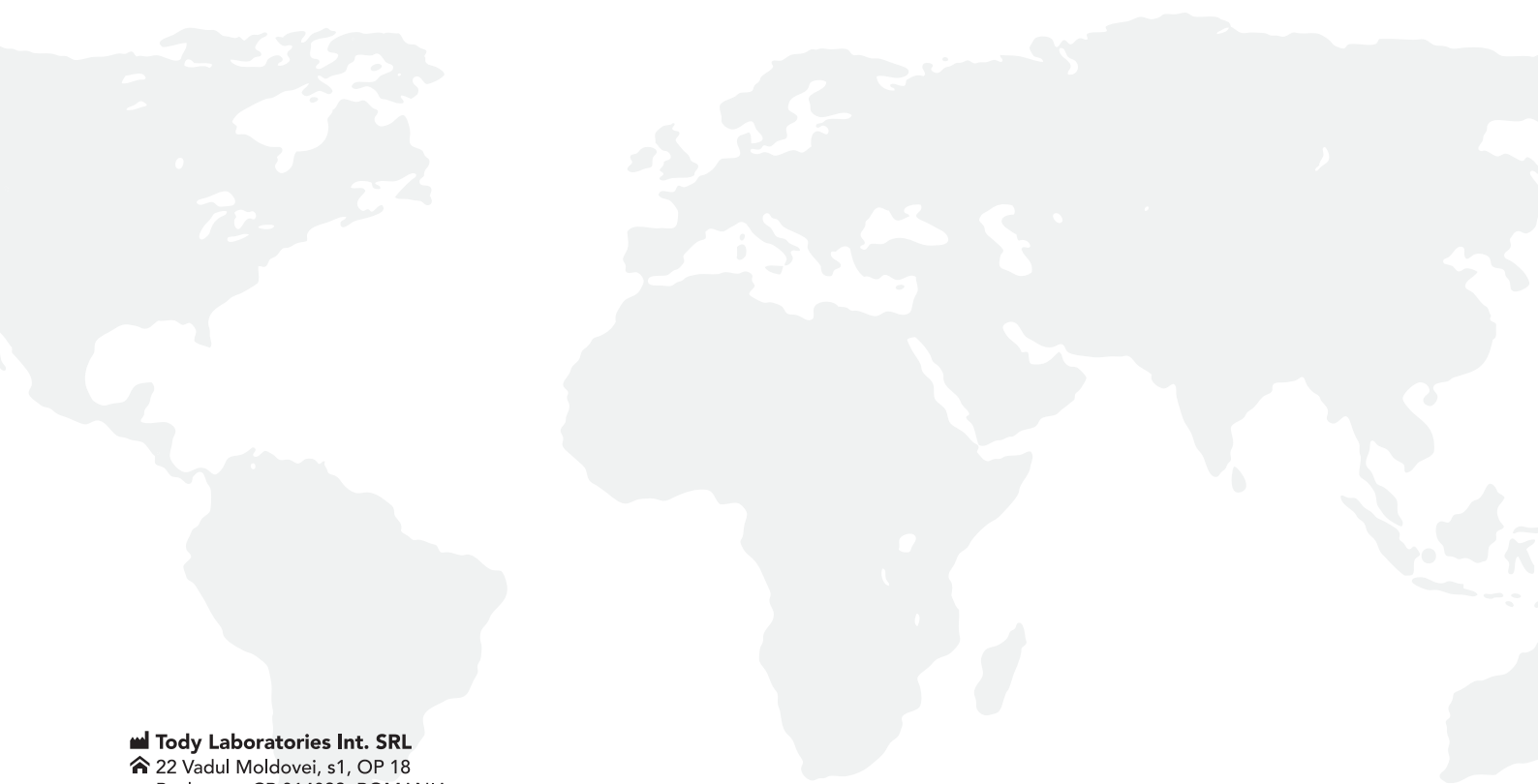
Main features of internal quality control materials offered by todylaboratories®:

- 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 | brand | analytes no. | code |
|---|-------------------|---------------------|---------------|
| Chemistry Control, Level 2 , 1x5 ml | todylaboratories® | 69 | L35IC1003 |
| Chemistry Control, Level 2, Assayed Premium Plus , 1x5 ml | Randox® | 69 | HN1530 |
| Chemistry Control, Level 3 , 1x5 ml | todylaboratories® | 69 | L35IC1004 |
| Chemistry Control, Level 3, Assayed Premium Plus , 1x5 ml | Randox® | 69 | HE1532 |
| Chemistry Control, Abnormal , lyophilized, 1x5ml | todylaboratories® | 41 | L23IC1029 |
| Chemistry Control, Normal , lyophilized, 1x5ml | todylaboratories® | 41 | L23IC1027 |
| Calibration serum , 1x3ml | todylaboratories® | - | L23IC1030 |
| Lipid Control, Level 1 , liquid stable, 3x1ml | todylaboratories® | 8 | L23IC1052 |
| Lipid Control, Level 2 , liquid stable, 3x1ml | todylaboratories® | 8 | L23IC1053 |
| Microalbumin Control, Level 1 & 2 , liquid ready to use, 6x1ml | todylaboratories® | - | L35IC1021 |
| Microalbumin Control, Level 1 & 2 , liquid ready to use, 6x1ml | Randox® | - | MA1361 |
| Protein Control, Level 1 , liquid ready to use, 1x2ml | todylaboratories® | 22 | L23IC1057 |
| Protein Control, Level 2 , liquid ready to use, 1x2ml | todylaboratories® | 22 | L23IC1058 |
| Protein Control, Set Level 1 & 2 , liquid ready to use, 2x1x2ml | todylaboratories® | 22 | L23IC1059 |
| Protein Control - Specific, Level 1 , lyophilized, 1x1ml | todylaboratories® | 26 | L35IC1012 |
| Protein Control - Specific, Level 1 , lyophilized, 1x1ml | Randox® | 26 | PS2682 |
| Protein Control - Specific, Level 2 , lyophilized, 1x1ml | todylaboratories® | 26 | L35IC1013 |
| Protein Control - Specific, Level 2 , lyophilized, 1x1ml | Randox® | 26 | PS2683 |
| Protein Control - Specific, Level 3 , lyophilized, 1x1ml | todylaboratories® | 26 | L35IC1014 |
| Protein Control - Specific, Level 3 , lyophilized, 1x1ml | Randox® | 26 | PS2684 |
| Coagulation Control, Level 1 , lyophilized, 1ml | todylaboratories® | 4 | L23IC1065 |
| Coagulation Control, Level 2 , lyophilized, 1ml | todylaboratories® | 4 | L23IC1066 |
| HbA1c Control, Level Low , lyophilized, 2x0,5ml | todylaboratories® | 1 | L23IC1068 |
| HbA1c Control, Level High , lyophilized, 2x0,5ml | todylaboratories® | 1 | L23IC1067 |
| HbA1c Control, Level Low & High, Set , lyophilized, 2x2x0,5ml | todylaboratories® | 1 | L23IC1069 |
| HbA1c Control, Level Low & High, Set , lyophilized, 2x2x0,5ml | todylaboratories® | 2 | L35IC1011 |
| HbA1c Control, Level Low & High, Set , lyophilized, 2x2x0,5ml | Randox® | 2 | HA5072 |
| ESR Control, Level 1 , 2x10ml | todylaboratories® | - | L23IC1080 |
| ESR Control, Level 2 , 2x10ml | todylaboratories® | - | L23IC1081 |
| Immunoassay Control, Level 1 , lyophilized, 1x5ml | todylaboratories® | 54 | L35IC1005 |
| Immunoassay Control, Level 1 , lyophilized, 1x5ml | Randox® | 54 | IA3109 |
| Immunoassay Control, Level 2 , lyophilized, 1x5ml | todylaboratories® | 54 | L35IC1006 |
| Immunoassay Control, Level 2 , lyophilized, 1x5ml | Randox® | 54 | IA3110 |
| Immunoassay Control, Level 3 , lyophilized, 1x5ml | todylaboratories® | 54 | L35IC1007 |
| Immunoassay Control, Level 3 , lyophilized, 1x5ml | Randox® | 54 | IA3111 |
| Immunoassay Control, Level 1 , lyophilized, 1x3ml | todylaboratories® | - | L23IC1082 |
| Immunoassay Control, Level 2 , lyophilized, 1x3ml | todylaboratories® | - | L23IC1083 |
| Immunoassay Control, Level 3 , lyophilized, 1x3ml | todylaboratories® | - | L23IC1084 |
| Immunoassay Control, Level 1 + Level 2, Specialty , lyophilized, 2x2ml | todylaboratories® | 10 | L35IC1008-1+2 |
| Immunoassay Control, Level 1, Specialty , lyophilized, 1x2ml | Randox® | 10 | IAS3113 |
| Immunoassay Control, Level 2, Specialty , lyophilized, 1x2ml | Randox® | 10 | IAS3114 |

| | brand | analytes no. | code |
|---|-------------------|--------------|-----------------------|
| Immunoassay Control, Level 3, Specialty , lyophilized, 1x2ml | RANDOX | 10 | IAS3115 |
| Tumor Marker Control, Level 1 , 5x2ml | todylaboratories® | 11 | L23IC1085 |
| Tumor Marker Control, Level 2 , 5x2ml | todylaboratories® | 11 | L23IC1086 |
| Anti SARS-CoV-2 Control , liquid ready to use, 2x2x4ml | todylaboratories® | - | L35IC1001 |
| Anti SARS-CoV-2 Control , liquid ready to use, 2x2x4ml | Randox® | - | COV10460 |
| Serology Control, Negative , liquid ready to use, 6x5ml | todylaboratories® | 13 | L35IC1015 |
| Serology Control, Negative , liquid ready to use, 6x5ml | Randox® | 13 | SR10351 |
| Serology Control, Positive, Level 1 , liquid ready to use, 3x5ml | todylaboratories® | 6 | L35IC1016 |
| Serology Control, Positive, Level 1 , liquid ready to use, 3x5ml | Randox® | 6 | SR10352 |
| Serology Control, Positive, Level 3 , liquid ready to use, 3x5ml | todylaboratories® | 2 | L35IC1017 |
| Serology Control, Positive, Level 3 , liquid ready to use, 3x5ml | Randox® | 2 | SR10354 |
| ToRCH Control, Negative , liquid ready to use, 6x5ml | todylaboratories® | 18 | L35IC1018 |
| ToRCH Control, Negative , liquid ready to use, 6x5ml | Randox® | 18 | SR10347 |
| ToRCH IgG Control, Positive , liquid ready to use, 3x5ml | todylaboratories® | 10 | L35IC1019 |
| ToRCH IgG Control, Positive , liquid ready to use, 3x5ml | Randox® | 10 | SR10348 |
| ToRCH IgM Control, Positive , liquid ready to use, 3x5ml | todylaboratories® | 5 | L35IC1020 |
| ToRCH IgM Control, Positive , liquid ready to use, 3x5ml | Randox® | 5 | SR10349 |
| Erythrocytes Control group A1 , fl x5ml (100 teste) | todylaboratories® | - | C15TR1005 |
| Erythrocytes Control group A2 , fl x5ml (100 teste) | todylaboratories® | - | C15TR1006 |
| Erythrocytes Control group O , fl x5ml (100 teste) | todylaboratories® | - | C15TR1007 |
| Erythrocytes Control group B , fl x5ml (100 teste) | todylaboratories® | - | C15TR1008 |
| Urine Assayed Control, Level 1 , 1x10ml | todylaboratories® | 22 | L23IC1078 |
| Urine Assayed Control, Level 2 , 1x10ml | todylaboratories® | 22 | L23IC1079 |
| Urine Assayed Control, Level 2 , 1x10ml | todylaboratories® | 24 | L35IC1022 |
| Urine Assayed Control, Level 2 , 1x10ml | Randox® | 24 | AU2352 |
| Urine Assayed Control, Level 3 , 1x10ml | todylaboratories® | 24 | L35IC1023 |
| Urine Assayed Control, Level 3 , 1x10ml | Randox® | 24 | AU2353 |
| Urine Control for Strips, Level 1 + Level 2, Set, manual methods , 2 vials x 12ml | todylaboratories® | 14 | L35IC1002 UC5033 & |
| Urine Control for Strips, Level 1 + Level 2, Set, manual methods , 2 vials x 12ml | Randox® | 13 | UC5034 |
| Urine control for strips - set: Level 1 and Level 2, manual methods , 2 vials x 15ml, vial without dropper | todylaboratories® | 13 | L49IC1002 |



🏢 **Tody Laboratories Int. SRL**
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📞 ISO 15189, 17043, 9001, 13485
🌐 www.todylaboratories.com

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Diagnostic responsabil. Din 1993.

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