

PRODUCT LIST 2026



MANUFACTURER
OF IVD REAGENTS & MICROBIOLOGY

DISTRIBUTOR
OF RAW MATERIALS

LTA
MILANO - ITALY
www.LTAonline.it

in vitro diagnostic reagents
microbiology
raw materials



(Rev. 00 del 04.12.2025)

Your Italian reference partner for customized solutions
and bulk materials used in IVD market



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Welcome to LTA srl

Founded in 1994, **LTA** srl is an Italian firm with a solid experience and expertise devoted to design, manufacture, sale and trade of In vitro Diagnostic Reagents also according to customer specifications.

The Headquarter of Company is in Bussero (Milan), Italy.

LTA is nowadays internationally recognised for the quality and reliability of its IVD products and serves customers in more than 50 countries all over the world.

More than 80% of items listed in **LTA** catalogue is manufactured by its own laboratories, by carrying out careful and suitable procedures, that involve control of raw material up to the finished products checking.

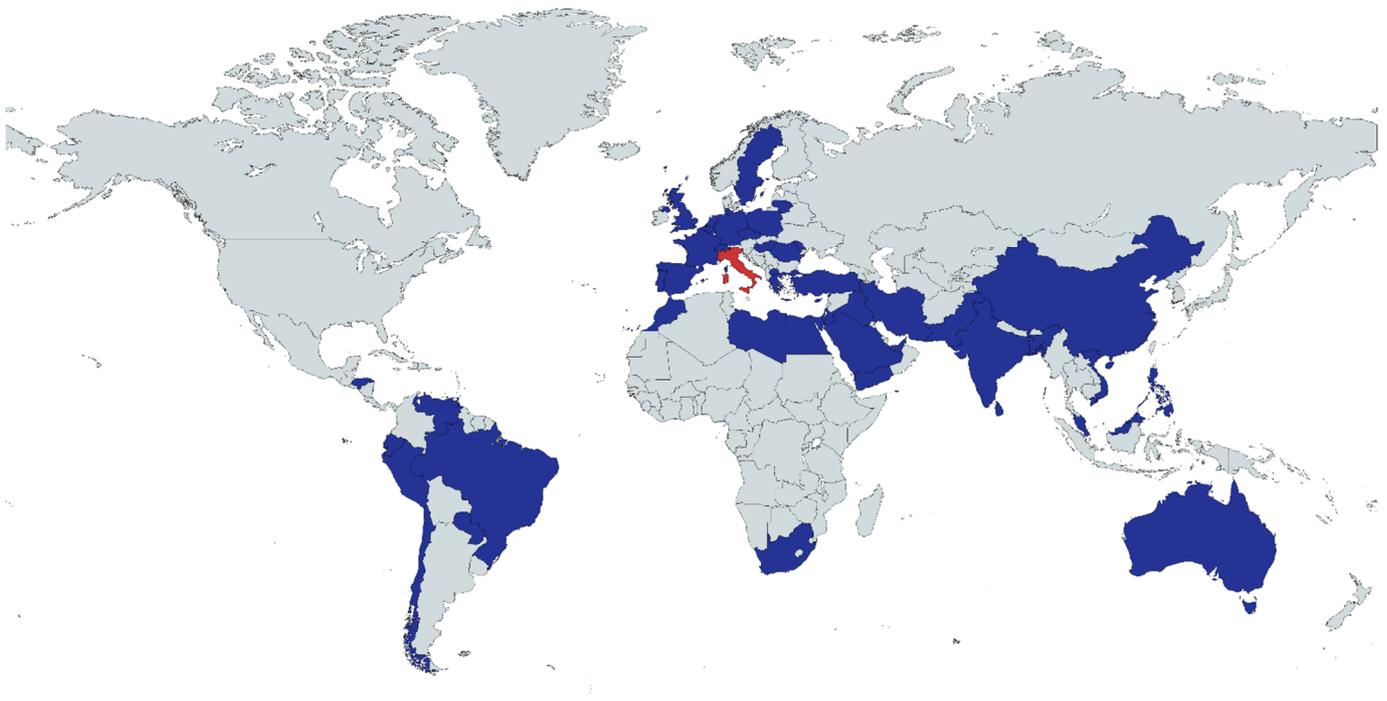
LTA can provide either labelled kits ready to be sold, in OEM or in bulk format.



...when “MADE IN ITALY” is an additional value.

LTA Marketing staff is formed by a team of Product Specialist and Managers, with a well-established technical and scientific background in the Diagnostic field. From the beginning, LTA has been pursuing the aim to improve and to upgrade its own staff, with the purpose of strengthening its capacity to answer at the market challenges.

Thus, the same strong support is offered to our network of international distributors and end-users in terms of customer technical service, trouble shooting, order processing, deliveries and customer relationship management.



● AGGLUTINATION

Reagents for qualitative and semi-quantitative determination by agglutination reaction.
Where specified the kit is complete with positive control, negative control or disposables.

Ref.	Product	Size	Test
AK00110	CRP latex	1x5 ml	100 tests
AK00111	CRP latex Suspension, Controls and Disposables	1x5 ml	100 tests
AK00105	CRP controls	2x0,5 ml	-
AK00210	RF latex	1x5 ml	100 tests
AK00211	RF latex Suspension, Controls and Disposables	1x5 ml	100 tests
AK00235	RF controls	2x0,5 ml	-
AK00252	WAALER-ROSE Suspension, Controls and Disposables	1x2,5 ml	50 tests
AK00310	ASO latex	1x5 ml	100 tests
AK00311	ASO latex Suspension, Controls and Disposables	1x5 ml	100 tests
AK00305	ASO controls	2x0,5 ml	-
AK00501	Syphilis RPR Suspension and Controls	1x2 ml	100 tests
AK00510	Syphilis RPR Suspension, Controls and Disposable	2x5 ml	500 tests
AK00601	Syphilis TPHA		100 tests
AK00600	Suspension and Controls	-	200 tests

● BACTERIAL SEROLOGY

SLIDE bacterial suspension

Coloured bacterial suspensions for the determination, by agglutination on slide, of antibodies associated to salmonellosis, brucellosis and rickettsiosis infections.

Ready to use reagents. Test sample: serum.

Ref.	Product	Size	Test
BS00110	<i>Salmonella typhi</i> H Slide	1x5 ml	100 tests
BS00210	<i>Salmonella typhi</i> O Slide	1x5 ml	100 tests
BS00260	<i>Salmonella typhi</i> TOTAL Slide	1x5 ml	100 tests
BS00310	<i>Salmonella paratyphi</i> AH Slide	1x5 ml	100 tests
BS00410	<i>Salmonella paratyphi</i> AO Slide	1x5 ml	100 tests
BS00460	<i>Salmonella paratyphi</i> A TOTAL Slide	1x5 ml	100 tests
BS00510	<i>Salmonella paratyphi</i> BH Slide	1x5 ml	100 tests
BS00610	<i>Salmonella paratyphi</i> BO Slide	1x5 ml	100 tests
BS00660	<i>Salmonella paratyphi</i> B TOTAL Slide	1x5 ml	100 tests
BS00710	<i>Salmonella paratyphi</i> CH Slide	1x5 ml	100 tests
BS00810	<i>Salmonella paratyphi</i> CO Slide	1x5 ml	100 tests
BS00860	<i>Salmonella paratyphi</i> C TOTAL Slide	1x5 ml	100 tests
BS00901	<i>Brucella</i> TOTAL Slide	1x5 ml	100 tests
BS00911	<i>Brucella abortus</i> Slide	1x5 ml	100 tests
BS00921	<i>Brucella melitensis</i> Slide	1x5 ml	100 tests
BS00960	<i>Brucella Bengal Rose</i> Slide	1x5 ml	100 tests
BS00950	<i>Brucella Bengal Rose</i> Slide Suspension and Controls	1x5 ml	100 tests
BS01010	<i>Proteus</i> OX2 Slide	1x5 ml	100 tests
BS01110	<i>Proteus</i> OX19 Slide	1x5 ml	100 tests
BS01210	<i>Proteus</i> OXK Slide	1x5 ml	100 tests

Multiple SLIDE

BS01250	Multiple <i>Proteus</i> Slide OX2, OX19, OXK - Suspensions and Controls	3x5 ml	3x100 tests
BS01500	Multiple Slide H, O, AH, AO, BH, BO - Suspensions and Controls	6x5 ml	6x100 tests
BS01300	Multiple Slide H, O, AH, AO, BH, BO, CH, CO, Brucella Total - Suspensions and Controls	9x5 ml	9x100 tests

MACRO bacterial serology

Coloured bacterial suspensions for the determination, by agglutination in test tubes, of antibodies associated to salmonellosis, brucellosis and rickettsiosis infections.
Ready to use reagents. Test sample: serum.

Ref.	Product	Size	Test
MA00105	<i>Salmonella typhi</i> H Macro	5x20 ml	200 tests
MA00205	<i>Salmonella typhi</i> O Macro	5x20 ml	200 tests
MA00255	<i>Salmonella typhi</i> TOTAL Macro	5x20 ml	200 tests
MA00305	<i>Salmonella paratyphi</i> AH Macro	5x20 ml	200 tests
MA00405	<i>Salmonella paratyphi</i> AO Macro	5x20 ml	200 tests
MA00455	<i>Salmonella paratyphi</i> A TOTAL Macro	5x20 ml	200 tests
MA00505	<i>Salmonella paratyphi</i> BH Macro	5x20 ml	200 tests
MA00605	<i>Salmonella paratyphi</i> BO Macro	5x20 ml	200 tests
MA00655	<i>Salmonella paratyphi</i> B TOTAL Macro	5x20 ml	200 tests
MA00705	<i>Salmonella paratyphi</i> CH Macro	5x20 ml	200 tests
MA00805	<i>Salmonella paratyphi</i> CO Macro	5x20 ml	200 tests
MA00855	<i>Salmonella paratyphi</i> C TOTAL Macro	5x20 ml	200 tests
MA00905	<i>Brucella</i> TOTAL Macro	5x20 ml	200 tests
MA00915	<i>Brucella abortus</i> Macro	5x20 ml	200 tests
MA00925	<i>Brucella melitensis</i> Macro	5x20 ml	200 tests
MA01005	<i>Proteus</i> OX2 Macro	5x20 ml	200 tests
MA01105	<i>Proteus</i> OX19 Macro	5x20 ml	200 tests
MA01205	<i>Proteus</i> OXK Macro	5x20 ml	200 tests

Multiple Macro

MA01250	Multiple <i>Proteus</i> Macro OX2, OX19, OXK	3x20 ml	3x40 tests
MA01400	Multiple Macro typhi H, typhi O, paratyphi A TOTAL, paratyphi B TOTAL, Brucella TOTAL	5x20 ml	5x40 tests
MA01300	Multiple Macro typhi H, typhi O, paratyphi AH, AO, BH, BO, C TOTAL, Brucella TOTAL	8x20 ml	8x40 tests

MICRO bacterial serology

Coloured bacterial suspensions for the determination, by agglutination on microplates, of antibodies associated to salmonellosis, brucellosis and rickettsiosis infections.

Ready to use reagents. Test sample: serum.

Kit is complete with positive control, negative control and microplate.

Ref.	Product	Size	Test
BM00100/P	<i>Salmonella typhi</i> H Micro	5x10 ml	500 tests
BM00200/P	<i>Salmonella typhi</i> O Micro	5x10 ml	500 tests
BM00250/P	<i>Salmonella typhi</i> TOTAL Micro	5x10 ml	500 tests
BM00300/P	<i>Salmonella paratyphi</i> AH Micro	5x10 ml	500 tests
BM00400/P	<i>Salmonella paratyphi</i> AO Micro	5x10 ml	500 tests
BM00450/P	<i>Salmonella paratyphi</i> A TOTAL Micro	5x10 ml	500 tests
BM00500/P	<i>Salmonella paratyphi</i> BH Micro	5x10 ml	500 tests
BM00600/P	<i>Salmonella paratyphi</i> BO Micro	5x10 ml	500 tests
BM00650/P	<i>Salmonella paratyphi</i> B TOTAL Micro	5x10 ml	500 tests
BM00700/P	<i>Salmonella paratyphi</i> CH Micro	5x10 ml	500 tests
BM00800/P	<i>Salmonella paratyphi</i> CO Micro	5x10 ml	500 tests
BM00850/P	<i>Salmonella paratyphi</i> C TOTAL Micro	5x10 ml	500 tests
BM00900/P	<i>Brucella</i> TOTAL Micro	5x10 ml	500 tests
BM00910/P	<i>Brucella abortus</i> Micro	5x10 ml	500 tests
BM00920/P	<i>Brucella melitensis</i> Micro	5x10 ml	500 tests
BM01000/P	<i>Proteus</i> OX2 Micro	5x10 ml	500 tests
BM01100/P	<i>Proteus</i> OX19 Micro	5x10 ml	500 tests
BM01200/P	<i>Proteus</i> OXK Micro	5x10 ml	500 tests

Multiple MICRO

BM01250/P	Multiple <i>Proteus</i> Micro OX2, OX19, OXK	3x10 ml	3x100 tests
BM01400/P	Multiple Micro typhi H, typhi O, paratyphi A TOTAL, paratyphi B TOTAL, Brucella TOTAL	5x10 ml	5x100 tests
BM01300/P	Multiple Micro typhi H, typhi O, paratyphi AH, AO, BH, BO, C TOTAL, Brucella TOTAL	8x10 ml	8x100 tests

Control sera for Micro, Macro, Slide, bacterial suspension

Positive controls for the determination by agglutination on microplates, test tubes or slides, of antibodies associated to salmonellosis, brucellosis and rickettsiosis infections.
Negative controls for latex and bacterial suspensions.

Ref.	Product	Size	Test
BS00011	Febrile Positive Controls Salmonella, Brucella, Proteus	3x0,5 ml	-
BS00020	Febrile Negative Control	1x1 ml	-

Disposables

Ref.	Product	Size	Test
MC00120C	Slide White Ring 6 area tests	100 pcs	-
MC00110C	Slide Black Ring 6 area tests	100 pcs	-
MC00090C	Slide RPR White Ring 10 area tests	100 pcs	-
MC00106	Plastic Stirrer	1x25 pcs	-
MC00150	U Bottom 96 Wells Microplate	1 pcs	-

● PARASITOLOGY

Tubes for the coloration and separation of eggs and larvae of human and animal faecal parasites (ex: *Anchilostoma*, *Canium*, *Ascarides*, *Blatocystis Hominis*, *Isopora Belli*, *Trichiuris Trichiura*, *Trichocephalus*).

Ready to use reagent for microscope analysis.

Ref.	Product	Size	Test
VK03500	Faecal Parasites Concentrator	-	50 tests

● UREASE TEST

Test for the determination of *Helicobacter pylori* in gastric biopsy samples.

Visual method for rapid and highly specific detection of *Helicobacter pylori* urease activity on gastric biopsies.

Ref.	Product	Size	Test
VK03200	Urease Liquid Test	-	50 tests
VK03250	Urease Liquid Test	-	300 tests

● CLINICAL CHEMISTRY SPECIALITIES

Ref.	Product	Size	Test
CC03900	ACE UV determination of Angiotensin Converting Enzyme in serum or plasma. Monoreagent.	-	24 tests
CC03930	ACE Control Set Animal control serum for Angiotensin Converting Enzyme assay in serum or plasma. 2 levels.	2x1 ml	-
CC03940	ACE Calibrator Animal calibration serum for Angiotensin Converting Enzyme assay in serum or plasma.	2x1 ml	-
CC02700	Aldolase Kinetic UV Aldolase determination in serum and plasma.	5x20 ml	40 tests
CC03330	Aldolase Control Set Animal control serum for Aldolase determination assay in serum and plasma. 2 levels.	2x1 ml	-
CC03340	Aldolase Calibrator Animal calibration serum for Aldolase determination assay in serum and plasma.	2x1 ml	-
CC04300	Ammonia Quantitative enzymatic determination of Ammonia in plasma.	-	50 tests
CC02150	Copper Copper determination in serum and plasma. 3,5-di-Br-PAESA method. Liquid bi-reagent. Standard 1x3 ml included.	6x20 ml	120 tests
CC02160	Copper Urine Copper determination in urine. 3,5-di-Br-PAESA method. Liquid bi-reagent. Standard 1x10 ml included.	6x20 ml	120 tests
CC02750	Zinc Colorimetric determination of Zinc in serum, plasma and urine. Liquid bi-reagent. Standard 1x5 ml included.	5x10 ml	50 tests
CC02780	Copper / Zinc Control Set Control solutions for determination of Copper and Zinc in biological fluids. 2x2 levels.	4x5 ml	-
CC03700	Chymotrypsin Colorimetric determination of Chymotrypsin in faeces. Monoreagent.	-	20 tests
CC03720	Chymotrypsin Sample Diluent	6x100 ml	-
CC03730	Chymotrypsin Control Set Control solutions for Chymotrypsin determination in faeces. 2 levels.	2x1 ml	-

Ref.	Product	Size	Test
CC04200	G6PDH UV determination of G-6-PDH in blood. Bi-reagent	10x5,5 ml	50 tests
CC03800	Galactose Enzymatic UV determination of Galactose in urine. 3 reagents ready to use. Standard 1x5 ml included.	2x20 ml	40 tests
CC03830	Galactose Control Set Control solution for Galactose in urine determination assay. 2 levels.	2x1 ml	-
CC01720	Glucose / Fructose Urine UV method for determination of D-Glucose and D-Fructose in urine. 3 reagents.	1x100 ml	100 tests
CC02800	Iodide Urine Colorimetric determination of Iodine in urine. Standard 5x2ml included.	-	50 tests
CC02830	Iodide Control Set Control solutions for determination of Iodide in urine. 2 levels.	2x2 ml	-
CC00150	Citric Acid Urine Enzymatic colorimetric determination of Citric Acid in urine. UV method. Liquid bi-reagent. Sample 24 hours urine.	5x20 ml	100 tests
CC02400 CC02410	Oxalic Acid Enzymatic colorimetric determination of Oxalic Acid in urine. Standard 1x5 ml included.	-	20 tests 100 tests
CC02420	Oxalic Acid Extraction Kit	-	100 tests
CC02430	Oxalic / Citric Control Set Control solutions for Oxalic Acid and Citric Acid determination. 3x2 levels.	6x5 ml	-
CC02500	TBA Enzymatic colorimetric determination of Total Bile Acids in serum. Standard 1x2 ml included.	-	110 tests
CC02530	TBA Control Set Control solutions for determination of Total Bile Acids in serum. 2 levels.	2x2 ml	-
CC03000	Xylose UV Enzymatic U.V. determination of Xylose in urine and serum. Standard 1x2 ml include.	-	50 tests
CC02630	Xylose Control Set Control solution for Xylose determination. 2x2 levels.	4x1 ml	-
CC04100	Kidney Stone Analysis Semi-quantitative colorimetric determination of components of Kidney and Urinary Stones.	-	50 tests

● CLINICAL CHEMISTRY

Ref.	Product	Size	Test
CC00200	Albumin Colorimetric determination with green bromocresol (BCG) of Albumin in serum and plasma. Single liquid reagent ready to use. Standard 1x3 ml included.	6x100 ml	300 tests
CC00400	ALT (GPT) Determination of Alanine Aminotransferase in serum and plasma according to IFCC recommendation.	4x50 ml	200 tests
CC00300	Amylase Kinetic determination of α -Amylase in serum, plasma and urine. CNP-G3 method. Single Liquid Reagent ready to use.	4x50 ml	200 tests
CC00500	AST (GOT) Determination of Aspartate Aminotransferase in serum and plasma according to IFCC recommendation. Liquid bi-reagent.	4x50 ml	200 tests
CC00620	Direct Bilirubin Colorimetric determination of Direct Bilirubin in serum and plasma (Diazo). Bi-reagent.	4x100 ml	400 tests
CC00720	Total Bilirubin Colorimetric determination of Total Bilirubin in serum and plasma (DMSO). Bi-reagent.	4x100 ml	400 tests
CC00800	Calcium OCP Colorimetric determination of Calcium in serum, plasma and urine. O-Cresolftaleine complexone method. Liquid Reagent. Standard 1x5 ml included.	6x100 ml	600 tests
CC01000	Total Cholesterol Enzymatic colorimetric determination of Total Cholesterol in serum and plasma. Trinder, CHOD-POD, Phenol Method. Single liquid reagent ready to use. Standard 1x5 ml included.	4x100 ml	400 tests
CC01200	Cholinesterase Kinetic determination of cholinesterase in serum and plasma. Liquid bi-reagent.	4x50 ml	200 tests
CC01300	CK-NAC Determination of Creatine Kinase in serum and plasma according to DGKC recommendation. Liquid bi-reagent.	4x30 ml	120 tests
CC01400	Creatinine Jaffé Colorimetric determination of Creatinine in serum and urine without deproteinization. Jaffé Method, Liquid Reagent. Reagent ready to use.	6x100 ml	600 tests
CC01800	Gamma GT Determination of Gamma-Glutamyltransferase in serum and plasma. L-Gamma Glutamyltransferase-4-Nitroanilide method. Liquid Reagent. Standard 1x5 ml included.	4x50 ml	200 tests
CC01900	Glucose Enzymatic colorimetric determination of Glucose in serum and plasma. Trinder, GOD-POD, Phenol Method - Single Liquid Reagent. Standard 1x5 ml included	4x100 ml	400 tests
CC02000	LDH Kinetic determination of Lactate Dehydrogenase in serum and plasma according to DGKC recommendation. Liquid bi-reagent.	4x50 ml	200 tests
CC02070	Magnesium Calmagite Colorimetric determination of Magnesium in biological liquids. Calmagite method. Liquid bi-reagent ready to use. Standard 1x5 ml included.	6x100 ml	600 tests

Ref.	Product	Size	Test
CC01600	Alkaline Phosphatase Determination of Alkaline Phosphatase in serum and plasma based according to DGKC recommendation. Liquid bi-reagent.	4x50 ml	200 tests
CC01700	Phosphorus UV Colorimetric determination of Inorganic Phosphorus in serum, plasma and urine. Molybdate method. Single Liquid Reagent ready to use. Standard 1x5 ml included.	6x100 ml	600 tests
CC02100	Total Proteins Colorimetric determination of Total Protein in serum and plasma (Biuret). Single Liquid Reagent ready to use. Standard 1x3 ml included.	6x100 ml	600 tests
CC02120	Total Proteins Urine Colorimetric determination of Total Protein in liquor and urine (Pyrogallol). Single Liquid Reagent ready to use. Standard 1x5 ml included.	6x100 ml	600 tests
CC02200	Triglycerides Enzymatic and colorimetric determination of Triglycerides in serum and plasma. Trinder, GPO-POD, TOOS Method. Single Liquid Reagent ready to use. Standard 1x5 ml included.	4x100 ml	400 tests
CC02301	Urea UV Enzymatic and colorimetric determination of Urease in serum, plasma and urine. Ureasi-GLDH Method. Liquid Reagent ready to use. Standard 1x5 ml. included.	4x100 ml	400 tests
CC00100	Uric Acid Enzymatic colorimetric determination of Uric Acid in biological liquids. Single liquid reagent ready to use. For manual and automatic method. Standard 1x5 ml included.	4x100 ml	400 tests

Controls & Calibrators

Ref.	Product	Size	Test
CC03100	Normal Control Serum Human based serum for the normal value control in clinical chemistry.	10x5 ml	-
CC03200	Pathological Control Serum Human based serum for the pathological value control in clinical chemistry.	10x5 ml	-
CC03250	Calibration Serum Human based serum for clinical chemistry analyses calibration.	10x3 ml	-

● **FERTILITY CLINICAL CHEMISTRY**

Ready to use kits with standards for infertility diagnosis.

Ref.	Product	Size	Test
FK00100	Fructose SF UV method for the determination of D-fructose in sperm	1x100 ml	100 tests
FK00200	Zinc SF Colorimetric determination of Zinc in sperm.	5x10 ml	50 tests
FK00250	Citric Acid SF UV method for determination of Citric Acid in sperm.	5x20 ml	100 tests
FK00400	Fertility Control Set Control solution for the determination of biochemical parameters in sperm. 3 levels.	3x1 ml	-

● HEREDITARY METABOLIC DISEASES & NEONATAL SCREENING

Reagents & accessories to use in Newborn screening.

Ref.	Product	Size	Test
CC00150	Citric Acid Urine Enzymatic colorimetric determination of Citric Acid in urine. UV method. Liquid bi-reagent. Sample 24 hours urine.	5x20 ml	100 tests
CC02400 CC02410	Oxalic Acid Enzymatic colorimetric determination of Oxalic Acid in urine. Standard 1x5 ml included.	-	20 tests 100 tests
CC02430	Oxalic / Citric Control Set Control solutions for Oxalic Acid and Citric Acid determination. 3x2 levels.	6x5 ml	-
CC01720	Glucose / Fructose Urine UV method for determination of D-Glucose and D-Fructose in urine. 3 reagents.	1x100 ml	100 tests
FK00400	Fertility Control Set Control solution for the determination of biochemical parameters of sperm. 3 levels.	3x1 ml	-
CC03800	Galactose Enzymatic UV determination of Galactose in urine. Three reagents ready to use. Standard 1x5 ml included.	2x20 ml	40 tests
CC03830	Galactose Control Set Control solution for Galactose determination in urine. 2 levels.	2x1 ml	-
SN00700	Sweat Control Set Control solution of known concentration for sweat test. 3x2 levels.	6x3 ml	-
SN00800	Biotinidase Colorimetric determination on micro plate of Biotinidase in serum and plasma.	-	100 tests
SN00900	Organic Acids SEMIQUANT Lyophilized solution of Organic Acids in synthetic urine for semi-quantitative determination in mass Spectrometry.	10 x 2,2 ml	-
SN00180	Newborn Screening Devices  Customized layout upon request.	9,5x17,5 cm	200 pcs.

● **TURBIDIMETRIC & OUCHTERLONY BENCE JONES**

Turbidimetric Bence Jones

Ready to use antisera for qualitative and quantitative turbidimetric determination of Bence Jones proteinuria. Visual or photometric reading.

Ref.	Product	Size	Test
UK00140	Turbidimetric Bence Jones	1x12,5 m	50 tests

Bence Jones Ouchterlony

Bence Jones's proteinuria determination by double radial immunodiffusion according Ouchterlony technique. Ready to use.
Kits include antisera, positive control and plates.

Ref.	Product	Size	Test
UK01001	Bence Jones Ouchterlony	10 pcs	10x2 tests

● IMMUNODIFFUSION

Radial Immunodiffusion

15 wells plates for determination of proteins. Kits include conversion table.

Ref.	Product	Size	Test
RK00100	Alfa1 Acid Glycoprotein RID	-	15 tests
RK00350	Antithrombin III RID	-	15 tests
RK00400	C3 Complement RID	-	15 tests
RK00500	C4 Complement RID	-	15 tests
RK00600	Kappa Free / Bound RID	-	15 tests
RK00700	Lambda Free / Bound RID	-	15 tests
RK00780	Fibrinogen RID	-	15 tests
RK00800	IgA RID	-	15 tests
RK00900	IgG RID	-	15 tests
RK01000	IgM RID	-	15 tests
RK01050	Multiplate IgA-IgG-IgM RID	-	3x5 tests
RK01100	Transferrin RID	-	15 tests

Controls & Calibrators

Titred human sera, plasma or urine to be used as calibrators/controls.

Ref.	Product	Size	Test
IC00200	SerumProtein Calibrator AAG - C3 - C4 - IgA - IgG - IgM - TRF	1x1 ml	-
IC00700	Antithrombin III Calibrator	1x1 ml	-
IC00800	Fibrinogen Calibrator	1x1 ml	-
IC00900	Kappa / Lambda Total Calibrator	1x1 ml	-
IC01000	Biochemistry Control Urine	1x5 ml	-

● BIOLOGICAL INDICATORS

The worldwide health authorities recognize biological indicators as an indispensable instrument to check quality of sterilization process.

Biological indicators must be made up of an adequate number of specific viable microorganisms prepared according to certain quality standards, providing a defined resistance to a specific sterilization process.

Correctly used, the LTA's biological indicators ensure the quality control of the sterilization process with a degree of probability of ~1:1.000.000, (i.e.: an autoclave that make 4 sterilization process a days might result in one false positive every 1.000 years of activity).

Steam sterilization

Ref.	Product	Size
AT00100 AT00110	Stericolor-Test Ampoules containing <i>Geobacillus stearothermophilus</i> ISM 75/12 (ATCC 7953) spores in culture medium with chromogenic indicator (from violet to yellow). The strain used is not pathogenic nor toxic.	10 pcs 24 pcs
AT00500	Steritest-12 Ampoules containing <i>Geobacillus stearothermophilus</i> ISM 75/12 (ATCC 7953) spores in culture medium with chromogenic indicator (from violet to yellow). The strain used is not pathogenic nor toxic. Include analysis and certification service by LTA (available in Italy; please enquire for other countries).	12 pcs
AT00190	Steritest-Strip Filter paper strips containing <i>Geobacillus stearothermophilus</i> ISM 75/12 (ATCC 7953) spores packed in single ready to use in autoclave bags. The strain used is not pathogenic nor toxic.	100 pcs

Dry sterilization

AT00200	Steridry-Test Biological indicator for dry sterilization process. Kit containing paper disks with dried spores of <i>Bacillus atrophaeus</i> ISM 71/104 (ATCC 9372) in standard quantities packed in ready to use in autoclave single vials to be added to culture medium with chromogenic indicator (from pink to yellow). The strain used is not pathogenic nor toxic.	10 pcs
AT00250	Sterioven-12 Biological indicator for dry sterilization process. Kit containing paper disks with dried spores of <i>Bacillus atrophaeus</i> ISM 71/104 (ATCC 9372) in standard quantities packed in ready to use in autoclave single vials. The strain used is not pathogenic nor toxic. Include analysis and certification service by LTA (available in Italy; please enquire for other countries).	12 pcs

Plasma sterilization

AT00650	Steritest-Plasma Biological indicator for sterilization process by Hydrogen Peroxide (H2O2) / Gas Plasma. Kit containing steel disks with dried spores of <i>Geobacillus stearothermophilus</i> ISM 75/12 (ATCC 7953) packed in ready to use in autoclave single bags to be added to culture medium with chromogenic indicator (from violet to yellow). The strain used is not pathogenic nor toxic.	10 pcs
AT00600	SteriPlasma-12 Biological indicator for sterilization process by Hydrogen Peroxide (H2O2) / Gas Plasma. Kit containing steel disks with dried spores of <i>Geobacillus stearothermophilus</i> ISM 75/12 (ATCC 7953) packed in ready to use in autoclave single bags. The strain used is not pathogenic nor toxic. Include analysis and certification service by LTA (available in Italy; please enquire for other countries).	12 pcs

● STRAINS COLLECTION

Our microbiological type strain collection is for quality and size among the most prestigious international collections.

The strains of our collection have been isolated in the laboratories of the former "Istituto Sieroterapico Milanese" (Serotherapeutic Institute of Milan - ISM), or were provided to ISM by Italian and foreign researchers. LTA, thanks to the high level of their scientific research laboratories and to the immediate availability of the specific cultures, is recognised as a reference centre for microbiological cultures.

LEGEND: CBP / CMP = 1 freeze-dried pellet (concentration $\geq 10^3$ CFU) dispensed in oxygen depleted atmosphere.
Available also with *Specific Known Titer* (final code with "T").

CBD / CMD = 10 freeze-dried disks (concentration $\geq 10^3$ CFU).

Microorganism	Origin	Code Disk	Code Pellet	Ref. to WDCM or other culture collections
<i>Aspergillus brasiliensis (Asp. niger)</i>	ISM 73/34	CMD00310	CMP00310S CMP00310ST	WDCM 00053 ATCC 16404
<i>Aspergillus flavus</i>	ISM 68/105	-	CMP00170S CMP00170ST	ATCC 9643
<i>Bacillus cereus</i>	ISM 66/10	CBD00450	CBP00450S CBP00450ST	WDCM 00001 ATCC 11778 NCTC 10320
<i>Bacillus cereus K250</i>	ISM 99/10	CBD00445	CBP00445S CBP00445ST	NCTC 10989
<i>Bacillus pumilus</i>	ISM 73/26	-	CBP00650S CBP00650ST	ATCC 14884 NCTC 8241
<i>Bacillus stearothermophilus var. calidolactis c 953</i>	ISM 80/36	CBD00710	CBP00710S CBP00710ST	-
<i>Bacillus subtilis spp. spizizenii</i>	ISM 68/53	CBD00820	CBP00820S CBP00820ST	WDCM 00003 ATCC 6633 NCTC 10400
<i>Bordetella bronchiseptica</i>	ISM 68/55	CBD01050	CBP01050S CBP01050ST	ATCC 4617
<i>Brevundimonas diminuta</i>	ISM 76/86	-	CBP04990S CBP04990ST	ATCC 19146
<i>Burkholderia cepacia</i>	ISM 98/01	-	CBP04980S CBP04980ST	ATCC 25416
<i>Candida albicans</i>	ISM 76/32	CMD00570	CMP00570S CMP00570ST	WDCM 00054 ATCC 10231
<i>Candida tropicalis</i>	ISM 74/05	CMD00640	CMP00640S CMP00640ST	ATCC 1369
<i>Clostridium perfringens</i>	ISM 76/33	-	CBP01800S CBP01800ST	WDCM 00007 ATCC 13124 NCTC 8237

Microorganism	Origin	Code Disk	Code Pellet	Ref. to WDCM or other culture collections
<i>Clostridium sporogenes</i>	ISM 76/77	-	CBP01910S CBP01910ST	WDCM 00008 ATCC 19404 NCTC 532
<i>Enterobacter cloacae (Hormaechei)</i>	ISM 80/14	CBD02210	-	ATCC 23355
<i>Enterococcus faecalis</i>	ISM 78/85	CBD06790	CBP06790S CBP06790ST	WDCM 00009 ATCC 19433 NCTC 775
<i>Enterococcus faecalis</i>	ISM 83/82	CBD06810	CBP06810S CBP06810ST	WDCM 00087 ATCC 29212 NCTC 12697
<i>Escherichia coli "O157:H7"</i>	ISM 96/01	-	CBP02890S CBP02890ST	WDCM 00188 ATCC 43895
<i>Escherichia coli</i>	ISM 67/03	-	CBP02330S CBP02330ST	ATCC 10536 NCTC 10418
<i>Escherichia coli</i>	ISM 76/11	CBD02700	CBP02700S CBP02700ST	WDCM 00013 ATCC 25922 NCTC 12241
<i>Escherichia coli</i>	ISM 76/31	CBD02710	CBP02710S CBP02710ST	WDCM 00012 ATCC 8739 NCTC 12923
<i>Escherichia coli</i>	ISM 81/27	-	CBP02840S CBP02840ST	ATCC 9637
<i>Gardnerella vaginalis</i>	ISM 80/79	-	CBP02960S CBP02960ST	ATCC 14018
<i>Klebsiella aerogenes</i>	ISM 82/33	CBD02180	CBP02180S CBP02180ST	WDCM 00175 ATCC 13048 NCTC 10006
<i>Klebsiella pneumoniae</i>	ISM 80/13	-	CBP03120S CBP03120ST	WDCM 00097 ATCC 13883 NCTC 9633
<i>Kocuria rhizophila</i>	ISM 68/190	CBD03430	CBP03430S CBP03430ST	ATCC 9341
<i>Lactobacillus leichmannii (L. delbrueckii spp. lactis)</i>	ISM 70/75	-	CBP03270S CBP03270ST	ATCC 4797
<i>Listeria innocua</i>	ISM 99/12	CBD03414	CBP03414S CBP03414ST	WDCM 00017 ATCC 33090 NCTC 11288
<i>Listeria ivanovii spp. ivanovii</i>	ISM 99/13	CBD03424	CBP03424S CBP03424ST	WDCM 00018 ATCC 19119 NCTC 11846
<i>Listeria monocytogenes</i>	ISM 80/22	CBD03400	CBP03400S CBP03400ST	ATCC 19115
<i>Listeria monocytogenes</i>	ISM 80/27	CBD03410	CBP03410S CBP03410ST	WDCM00021 ATCC 13932 NCTC 10527
<i>Listeria monocytogenes</i>	ISM 99/14	CBD03395	CBP03395S CBP03395ST	ATCC 7644 NCTC 13372

Microorganism	Origin	Code Disk	Code Pellet	Ref. to WDCM or other culture collections
<i>Listeria monocytogenes</i>	ISM 99/19	-	CBP03385S CBP03385ST	ATCC 35152
<i>Micrococcus luteus</i>	ISM 68/192	-	CBP03440S CBP03440ST	ATCC 10240
<i>Moraxella catarrhalis</i>	ISM 70/23	CBD01130	CBP01130S CBP01130ST	ATCC 8176
<i>Morganella morganii subsp. morganii</i>	ISM 80/04	CBD03700	-	ATCC 25830 NCTC 235
<i>Nocardia farcinica</i>	ISM 84/341	CBD04310	-	ATCC 3308
<i>Proteus hauseri</i>	ISM 78/15	CBD04700	-	ATCC 13315
<i>Proteus mirabilis</i>	ISM 75/15	-	CBP04600S CBP04600ST	ATCC 15146
<i>Pseudomonas aeruginosa</i>	ISM 73/36	CBD04860	CBP04860S CBP04860ST	WDCM 00026 ATCC 9027 NCTC 12924
<i>Pseudomonas aeruginosa</i>	ISM 76/12	CBD04900	CBP04900S CBP04900ST	WDCM 00025 ATCC 27853 NCTC 12903
<i>Pseudomonas aeruginosa</i>	ISM 84/97	-	CBP04930S CBP04930ST	WDCM 00024 ATCC 10145 NCTC 10332
<i>Pseudomonas fluorescens</i>	ISM 69/48	-	CBP05010S CBP05010ST	WDCM 00115 ATCC 13525 NCTC 10038
<i>Rhodococcus equi</i>	ISM 99/15	-	CBP05135S CBP05135ST	WDCM 00028 ATCC 6939 NCTC 1621
<i>Saccharomyces cerevisiae</i>	ISM 68/119	CMD01420	CMP01420S CMP01420ST	WDCM 00058 ATCC 9763 NCTC 10716
<i>Salmonella enterica spp. enterica serovar typhimurium</i>	ISM 80/08	CBD05710	CBP05710S CBP05710ST	WDCM 00031 ATCC 14028 NCTC 12023
<i>Salmonella enterica spp. enterica</i>	ISM 99/18	-	CBP05715S CBP05715ST	WDCM 00030 ATCC 13076 NCTC 12694
<i>Salmonella enterica spp. enterica serovar abony</i>	ISM 83/37	CBD05240	CBP05240S CBP05240ST	WDCM 00029 ATCC 6017
<i>Shigella flexneri</i>	ISM 83/42	CBD06050	CBP06050S CBP06050ST	WDCM 00126 ATCC 12022 NCTC 12698
<i>Shigella sonnei</i>	ISM 83/44	CBD06080	CBP06080S CBP06080ST	ATCC 25931

Microorganism	Origin	Code Disk	Code Pellet	Ref. to WDCM or other culture collections
<i>Staphylococcus aureus</i>	ISM 68/14	CBD06120	CBP06120S CBP06120ST	WDCM 00030 ATCC 6538 NCTC 10788
<i>Staphylococcus aureus</i>	ISM 75/80	CBD06540	CBP06540S CBP06540ST	ATCC 29213
<i>Staphylococcus aureus</i>	ISM 76/10	CBD06600	CBP06600S CBP06600ST	WDCM 00034 ATCC 25923 NCTC 12981
<i>Staphylococcus epidermidis</i>	ISM 66/25	CBD06650	CBP06650S CBP06650ST	WDCM 00036 ATCC 12228 NCTC 13360
<i>Streptococcus pyogenes</i>	ISM 03/01	CBD07130	CBP07130S CBP07130ST	ATCC 19615 NCTC 12696
<i>Vibrio parahaemolyticus</i>	ISM 81/05	-	CBP08110S CBP08110ST	WDCM 00037 ATCC 17802 NCTC 10903
<i>Yersinia enterocolitica</i>	ISM 78/69	-	CBP08140S CBP08140ST	ATCC 23715 NCTC 10598

NOTE:

- This is only part of our strains collection which comprise >50 strains with a WDCM reference and >600 strains with traceability to other known collections (ATCC, NCTC, DMZ...). If the strains of your interest are not listed, please contact our Sales Dept.

● POSITIVE CONTROLS

Raw materials for Immunochemical Determination of ANTIGENS, Lateral Flow Chromatography, ELISA

Positive Controls

Ref.	Product	Unit
RM99980PC	Beta HCG Antigen	ml
RM01340PC	<i>Campylobacter</i> Antigen	ml
RM01935/APC	<i>Clostridium difficile</i> Toxin A Antigen	ml
RM01935/BPC	<i>Clostridium difficile</i> Toxin B Antigen	ml
RM01935/GPC	<i>Clostridium difficile</i> Toxin GDH Antigen	ml
RM01935/ABPC	<i>Clostridium difficile</i> Toxin A+B Antigens	ml
RM01935/ABGPC	<i>Clostridium difficile</i> Toxin A+B+GDH Antigens	ml
RM99990PC	Faecal occult blood Antigen	ml
RM99990PC-F	Faecal occult blood Antigen in Faecal Matrix	mg
RM08300PC	<i>Helicobacter pylori</i> Antigen	ml
RM08200PC	<i>Legionella pneumophila</i> urinary Antigen	ml
RM03370PC	<i>Listeria monocytogenes</i> serotype 1 Antigen	ml
RM03400PC	<i>Listeria monocytogenes</i> serotype 4b Antigen	ml
RM05710PC	<i>Salmonella typhimurium</i> Antigen	ml
RM07110PC	<i>Streptococcus</i> A Antigen	ml
RM07530PC	<i>Streptococcus</i> B Antigen	ml
RM07098PC	<i>Streptococcus pneumoniae</i> Type 8 urinary Antigen	ml

NOTE:

- LTA's Positive Controls is constantly updating; we invite you to take contact with Sales Dept. in order to know the latest controls developed.

Negative Controls

Ref.	Product	Unit
RM99980NC	Beta HCG Antigen	ml
RM01340NC	<i>Campylobacter</i> Antigen	ml
RM01935/ABGNC	<i>Clostridium difficile</i> Toxin A+B+GDH Antigens	ml
RM99990NC	Faecal occult blood Antigen	ml
RM99990NC-F	Faecal occult blood Antigen in Faecal Matrix	mg
RM08300NC	<i>Helicobacter pylori</i> Antigen	ml
RM08300NC-F	<i>Helicobacter pylori</i> Antigen in Faecal Matrix	mg
RM08200NC	<i>Legionella pneumophila</i> urinary Antigen	ml
RM03370NC	<i>Listeria monocytogenes</i> serotype 1 Antigen	ml
RM03400NC	<i>Listeria monocytogenes</i> serotype 4b Antigen	ml
RM05710NC	<i>Salmonella typhimurium</i> Antigen	ml
RM07110NC	<i>Streptococcus</i> A Antigen	ml
RM07530NC	<i>Streptococcus</i> B Antigen	ml
RM07098NC	<i>Streptococcus pneumoniae</i> Type 8 urinary Antigen	ml

● WHOLE CELL MICROBIAL LYSATE

Inactivated and lysed microbial cells from our strain collection in nontoxic buffer

Ref.	Product	Unit
RML00220	<i>Aeromonas hydrophila</i> ISM 84/331	ml
RML00450	<i>Bacillus cereus</i> ISM 66/10	ml
RML01340	<i>Campylobacter jejuni</i> sub. <i>jejuni</i> ISM 88/3	ml
RML00570	<i>Candida albicans</i> ISM 76/32	ml
RML01390	<i>Clostridium difficile</i> Toxin A+B+GDH Antigens	ml
RML01935	<i>Clostridium difficile</i> ISM 83/29	ml
RML01800	<i>Clostridium perfringens</i> ISM 76/33	ml
RML02210	<i>Enterobacter cloacae</i> (<i>Hormaechei</i>) ISM 80/14	ml
RML06810	<i>Enterococcus faecalis</i> ISM 83/82	ml
RML02890	<i>Escherichia coli</i> "O157:H7" ISM 96/01	ml
RML02700	<i>Escherichia coli</i> ISM 76/11	ml
RML03020	<i>Haemophilus influenzae</i> ISM 84/309	ml
RML03120	<i>Klebsiella pneumoniae</i> ISM 80/13	ml
RML04700	<i>Proteus hauseri</i> ISM 78/15	ml
RML04660	<i>Proteus vulgaris</i> ceppo OX 2 ISM 68/194	ml
RML04900	<i>Pseudomonas aeruginosa</i> ISM 76/12	ml
RML05715	<i>Salmonella enterica</i> subs. <i>enterica</i> ISM 99/18	ml
RML05710	<i>Salmonella enterica</i> subs. <i>enterica</i> serovar <i>typhimurium</i> ISM 80/8	ml
RML05940	<i>Serratia liquefaciens</i> ISM 65/30	ml
RML08300	<i>Shigella dysenteriae</i> ISM 74/50	ml
RML06050	<i>Shigella flexneri</i> ISM 83/42	ml
RML06600	<i>Staphylococcus aureus</i> ISM 76/10	ml
RML06650	<i>Staphylococcus epidermidis</i> ISM 66/25	ml
RML08110	<i>Vibrio parahaemolyticus</i> ISM 81/05	ml
RML08140	<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> ISM 78/69	ml

NOTE:

- LTA's collection comprises >50 strains with a WDCM reference and >600 strains with traceability to other known collections (ATCC, NCTC, DMZ...); we invite you to take contact with Sales Dept. in order to know the latest controls developed.

ORDERS

The orders must be sent in writing (fax or e-mail) and must clearly state product name, product description, reference number, quantity required and shipping instruction.

PRICES AND PAYMENT TERMS

Agreed payment terms are stated in the invoice.

Invoices not disputed within 8 days from the date of delivery of the goods, are intend as accepted. The prices are in EURO.

SHIPMENT

Delivery terms, if different from expected, are stated in the order confirmation.

Buyer has to bear all costs and risks of loss or damage to the goods.

COMPLAINTS

The complaints must be sent in writing within 8 days from the date of delivery of the goods, accompanied by a copy of the invoice or the order confirmation.

The return of goods is not accepted without our written authorization.

In the event of dispute, the case shall be settled by the Court of Milan.

LTA srl - Via Milano 15/F, 20041 Bussero (MI) - Italia

sales & order dept.	Phone +39.02.95409034
	Fax +39.02.95334185
	sales@LTAonline.it

technical information	info@LTAonline.it
	customerservice@LTAonline.it

web site	www.LTAonline.it
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LTA srl

via Milano 15/F
20041 Bussero (MI) - ITALY
Tel: +39 02 95409034
Fax: +39 02 95334185
e-mail: info@LTAonline.it
www.LTAonline.it