

# TERRENI RACCOMANDATI DALLO FDA, USP E PE PER IL CONTROLLO DEI PRODOTTI FARMACEUTICI ED ALIMENTARI

I seguenti terreni sono raccomandati dallo FDA, USP e PE per il controllo microbiologico dei prodotti farmaceutici ed alimentari:

FDA No.	Nome del terreno	Terreni pronti all'uso Biologik cat. No.	Terreni liofilizzati Biologik cat. No.
M1	A-1 Broth		C7570, C7571, C7572, C7573, C7574
M29a	Abeyta-Hunt-Bark Agar		
M2	Acetamide Agar	L02	
M2	Acetamide Broth		
M3	Acetate Agar	L15	
M4	Acid Broth		
M5	AE Sporulation Medium, Modified (for <i>C. perfringens</i> )		
M6	Agar Medium P		C5000, C5001, C5002, C5003, C5004
M7	AKI Medium		
M8	Alkaline Peptone Agar		
M9	Alkaline Peptone Salt Broth		
M10	Alkaline Peptone Water	K03	
M10a	ALOA (Agar Listeria Ottavani & Agosti) Medium		
M11	Anaerobe Agar		
M12	Anaerobic Egg Yolk Agar	AS511	
M13	Andrade's Carbohydrate Broth and Indicator	Y79-Y95	
M14	Antibiotic Medium No. 1 (Agar Medium A)		
M15	Antibiotic Medium No. 4 (Agar Medium B)		
M16	Arginine-Glucose Slant (AGS)		
M17	Baird-Parker Medium, pH 7.0	G96, P16	C5080, C5081, C5082, C5083, C5084
M18	Bile Esculin Agar	G12, L10	C5180, C5181, C5182, C5183, C5184
M17a	Biosynth <sup>®</sup> Chromogenic Medium (BCM <sup>®</sup> ) for <i>Listeria monocytogenes</i>		
M19	Bismuth Sulfite Agar (Wilson and Blair)		C5210, C5211, C5212, C5213, C5214
M20	Blood Agar	A10, L12, P33	
M20a	Blood Agar Base		C5220, C5221, C5222, C5223, C5224

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M21	Blood Agar Base (Infusion Agar)		C5820, C5821, C5822, C5823, C5824
M22	Blood Agar No. 2		
M23	Brain Heart Infusion (BHI) Agar (0.7%) (for staphylococcal enterotoxin)		
M24	Brain Heart Infusion Agar	L35, W15, X10	C5120, C5121, C5122, C5123, C5124
M24	Brain Heart Infusion Broth	R10, R15, R20, K27	C5140, C5141, C5142, C5143, C5144
M25	Brilliant Green Lactose Bile Broth	K09	
M26	Bromcresol Purple Broth		
M27	Bromcresol Purple Dextrose Broth (BCP)		
M192	Buffered Peptone Water (BPW)	K107, K195	C5320, C5321, C5322, C5323, C5324
M28a	Campylobacter Enrichment Broth (Bolton formula)	U48, U83	
M31	Cary and Blair Transport Medium		7253C, 7253D
M32	Casamino Acid Yeast Extract Broth (CYE Broth)		
M34	Casamino Acids Yeast Extract Salts (CA-YE) Broth (Gorbach)		
M35	CIN Agar	G20	C5390, C5391, C5392, C5393, C5394
M36	Cell Growth Medium		
M189	Cellulase Solution		
M187	Cellobiose-Colistin (CC) Agar		
M37	Cetrimide Agar	G18, L34	C5370, C5371, C5372, C5373, C5374
M38	Chopped Liver Broth		
M39	Christensen Citrate Agar		
M40	Christensen's Urea Agar	L65, R42	C7230, C7231, C7232, C7233, C7234
M40a	CHROMagar™ Listeria		
M40b	Chromogenic Listeria Agar		
M41	Congo Red BHI Agarose (CRBHO) Medium*		
M42	Cooked Meat Medium	K219	C5480, C5481, C5482, C5483, C5484
M43	Cooked Meat Medium, Modified		
M44	Decarboxylase Medium Base, Falkow		
M193	Dey-Engley Broth		
M184	Dichloran 18% Glycerol (DG18) Agar	W85, X49	
M183	Dichloran Rose Bengal Chloramphenicol (DRBC) Agar		
M45	Duncan-Strong (DS) Sporulation Medium, Modified (for <i>C. perfringens</i> )		
M46	Eagle's Minimal Essential Medium (MEME) (with Earle's salts and nonessential amino acids)		

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M47	Earle's Balanced Salts (Phenol Red-Free)		
M48	EB Motility Medium		
M49	EC Broth	K13, K14, K63	C5690, C5691, C5692, C5693, C5694
M50	EC-MUG Medium	K18, K64	C5680, C5681, C5682, C5683, C5684
M51	Egg Yolk Emulsion, 50%		
M52	Buffered Listeria Enrichment Broth, pH 7.3 +/- 0.1	K57, U167	
M53	Esculin Agar, Modified (CDC)	L29	
M30b	Freezing Medium		
M54	Gelatin Agar (GA)		
M55	Gelatin Salt Agar (GS)		
M57	Gentamicin Sulfate Solution		
M58	Ham's F-10 Medium		
M59	Heart Infusion Agar (HIA)	Q59	C5820, C5821, C5822, C5823, C5824
M60	Heart Infusion Agar (HIA) (for <i>Vibrio</i> )		
M60	Heart Infusion (HI) Broth (for <i>Vibrio</i> )		
M61	Hektoen Enteric (HE) Agar	G63	C5840, C5841, C5842, C5843, C5844
M62	HC (Hemorrhagic colitis <i>E. coli</i> strains) Agar		
M63	Hugh-Leifson's Glucose Broth (HLGB)		
M64	Indole Medium		
M65	Indole Medium (CDC)		
M66	Indole Nitrate Medium (Tryptic Nitrate)	K147	C5870, C5871, C5872, C5873, C5874
M67	Irgasan <sup>®</sup> -Ticarcillin-Chlorate (ITC) Broth		
M68	Iron Milk Medium (Modified)		
M69	King's B Medium		
M70	King's O/F Basal Medium	Y51	C6500, C6501, C6502, C6503, C6504
M71	Kliger Iron Agar	L70, R70	C5910, C5911, C5912, C5913, C5914
M72	Koser's Citrate Broth		
M73	L-15 Medium (Modified) Leibovitz		
M74	Lactose Broth	U92	C5940, C5941, C5942, C5943, C5944
M75	Lactose-Gelatin Medium (for <i>C. perfringens</i> )		
M76	Lauryl Tryptose (LST) Broth	K32	C5980, C5981, C5982, C5983, C5984

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M77	Lauryl Tryptose MUG (LST-MUG) Broth	K35	C5990, C5991, C5992, C5993, C5994
M78	Letheen Agar (Modified)	G221	C7900, C7901, C7902, C7903, C7904
M79	Letheen Broth (Modified)		C7640, C7641, C7642, C7643, C7644
M80	Levine's Eosin-Methylene Blue (L-EMB) Agar	G25, P09	C5700, C5701, C5702, C5703, C5704
M81	Lithium Chloride-Phenylethanol-Moxalactam (LPM) Medium	G92	C6060, C6061, C6062, C6063, C6064
M82	[Lithium Chloride-Phenylethanol-Moxalactam] LPM Plus Esculin and Ferric Iron		
M83	Liver-Veal Agar		
M84	Liver-Veal-Egg Yolk Agar		
M85	Long-Term Preservation Medium		
M86	Lysine Arginine Iron Agar (LAIA)		
M87	Lysine Decarboxylase Broth (Falkow) (for <i>Salmonella</i> )		
M88	Lysine Decarboxylase (LDC) Medium (for Gram-negative nonfermentative bacteria)		
M89	Lysine Iron Agar (Edwards and Fife)	L25, R22	C6090, C6091, C6092, C6093, C6094
M90	Lysozyme Broth		
M91	MacConkey Agar	G35	C6130, C6131, C6132, C6133, C6134
M92	Malonate Broth	K36	C6180, C6181, C6182, C6183, C6184
M185	Malt Agar (MA)		
M93	Malt Extract Agar (Cosmetics-General Microbiology)	P93, W28	C6200, C6201, C6202, C6203, C6204
M182	Malt Extract Agar (Yeasts and Molds) (MEAYM)		
M94	Malt Extract Broth		C6210, C6211, C6212, C6213, C6214
M95	Mannitol-Egg Yolk-Polymyxin (MYP) Agar	G147, H147	C7400, C7401, C7402, C7403, C7404
M96	Mannitol Maltose Agar		
M97	Mannitol Salt Agar	G40, L32, P98	C6230, C6231, C6232, C6233, C6234
M30a	Modified Campylobacter Blood-Free Selective Agar Base (CCDA)		
M98	Modified Cellobiose-Polymyxin B-Colistin (mCPC) Agar		
M103a	Modified Oxford Listeria Selective Agar		
M99	Motility-Indole-Ornithine (MIO) Medium	Q20	C6330, C6331, C6332, C6333, C6334
M100	Motility Medium (for <i>B. cereus</i> )		
M101	Motility Nitrate Medium (for Cosmetics)	Y23	

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M102	Motility-Nitrate Medium, Buffered (for <i>C. perfringens</i> )		
M103	Motility Test Medium (Semisolid)	Q10, Q11	C6380, C6381, C6382, C6383, C6384
M104	MR-VP Broth	K37	C6410, C6411, C6412, C6413, C6414
M105	Mucate Broth		
M106	Mucate Control Broth		
M107	Mueller Hinton Agar	G45, H11	C6420, C6421, C6422, C6423, C6424
M108	Nitrate Broth	K42	C6450, C6451, C6452, C6453, C6454
M109	Nitrate Broth, Enriched (CDC)		
M110	Nitrate Reduction Medium and Reagents		
M111	Nonfat Dry Milk (Reconstituted)		
M112	Nutrient Agar	L20	C6460, C6461, C6462, C6463, C6464
M113	Nutrient Agar (for <i>B. cereus</i> )	L20	
M114	Nutrient Broth	K43, K243, U149	C6470, C6471, C6472, C6473, C6474
M115	Nutrient Gelatin (CDC) (for Gram-negative non fermentative bacteria)	Q23	C6480, C6481, C6482, C6483, C6484
M116	OF Glucose Medium, Semisolid	Y57	
M118	Oxford Medium		
M117	Oxidative-Fermentative (OF) Test Medium	Y51	
M118a	PALCAM Listeria Selective Agar	G149	
M56a	Papain Solution, 5%		
M119	Penicillin-Streptomycin Solution		
M120	Peptone Sorbitol Bile Broth		
M121	Phenol Red Carbohydrate Broth	Y300	C6590, C6591, C6592, C6593, C6594
M122	Phenol Red Glucose Broth	Y304	C8050, C8051, C8052, C8053, C8054
M123	Phenylalanine Deaminase Agar	L21	C6600, C6601, C6602, C6603, C6604
M124	Plate Count Agar (Standard Methods)	G13, G43, G148, H53, P56, U95	C6980, C6981, C6982, C6983, C6984
M125	PMP Broth		
M126	Potassium Cyanide (KCN) Broth		
M127	Potato Dextrose Agar	H51, L90, Q29, U94, U294, U394, W60, X62	C6620, C6621, C6622, C6623, C6624
M128	Pseudomonas Agar F (for fluorescein production)	G198	C6670, C6671, C6672, C6673, C6674
M129	Pseudomonas Agar P (for pyocyanine production)	G201	C6690, C6691, C6692, C6693, C6694
M130	Purple Carbohydrate Broth	Y100-Y117	C6710, C6711, C6712, C6713, C6714
M130a	Purple Carbohydrate Fermentation Broth Base		

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M131	Pyrazinamidase Agar*	K158	
M131a	Rapid' L. mono Medium		
M132	Rappaport-Vassiliadis Medium	K167	C6740, C6741, C6742, C6743, C6744
M133	Sabouraud's Dextrose Agar	P36, W70, X40	C6810, C6811, C6812, C6813, C6814
M133	Sabouraud's Dextrose Broth	K54, U73, U74	C7560, C7561, C7562, C7563, C7564
M134	Selenite Cystine Broth	K69	C6920, C6921, C6922, C6923, C6924
M30d	Semisolid Medium, Modified,		
M30c	Semisolid Medium, Modified, for Culture Storage		
M135	Sheep Blood Agar	A10, A125, A127, H28, L12, P33, SP10	
M136	Shigella Broth		
M137	SIM Motility Medium	Q30	C6940, C6941, C6942, C6943, C6944
M138	Simmons Citrate Agar	L80	C6950, C6951, C6952, C6953, C6954
M139	Sorbitol-MacConkey Agar	G36	C6170, C6171, C6172, C6173, C6174
M140	Sporulation Broth (for <i>C. perfringens</i> )		
M141	Spray's Fermentation Medium (for <i>C. perfringens</i> )		
M142	Staphylococcus Agar No. 110	G52	C6990, C6991, C6992, C6993, C6994
M143	Starch Agar	G192	C7010, C7011, C7012, C7013, C7014
M144	T <sub>1</sub> N <sub>1</sub> Medium		
M145	Tetrathionate Broth	K65	C7060, C7061, C7062, C7063, C7064
M146	Thioglycollate Medium (Fluid) (FTG)	K21	
M147	Thiosulfate-Citrate-Bile Salts-Sucrose (TCBS) Agar	G55	C7040, C7041, C7042, C7043, C7044
M148	Toluidine Blue-DNA Agar	G24	C5670, C5671, C5672, C5673, C5674
M149	Triple Sugar Iron Agar (TSI)	L50, R32	C7110, C7111, C7112, C7113, C7114
M150	Tryptic Novobiocin (TN) Broth		
M151	Tryptic-Peptone-Glucose-Yeast Extract Broth (TPGY)		
M151a	Tryptic-Peptone-Glucose-Yeast Extract Broth with Trypsin (TPGYT)		
M152	Tryptic Soy Agar	G60, G151, H19, L60, Q35, Q58, U49, U60 U158, U260, U360, U361	C7120, C7121, C7122, C7123, C7124
M152a	Tryptic Soy Agar-Magnesium Sulfate- NaCl (TSAMS)		
M153	Tryptic Soy Agar with 0.6% Yeast Extract (TSAYE)		

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M154	Tryptic Soy Broth	K82, K83, K88, K89, K131, K182, R30, R31, R36, R41, S37, U14, U38, U42, U44, U46, U52, U62, U63, U65, U67, U71, U79, U80, U108, U133, U141, U171, U177, U223, U242, U271, U274	C7140, C7141, C7142, C7143, C7144
M156	Tryptic Soy Broth, Modified (mTSB)		
M186	Tryptic Soy Broth (TSB) with Ferrous Sulfate		
M155	Tryptic Soy Broth (TSB) with Glycerol	U127	
M154a	Tryptic Soy Broth with 10% NaCl and 1% Sodium Pyruvate		
M157	Tryptic Soy Broth with 0.6% Yeast Extract (TSBYE)		
M158	Tryptic Soy-Polymyxin Broth		
M159	Tryptic Soy-Sheep Blood Agar	A10, L12, P33	
M160	Tryptic Soy-Tryptose Broth		
M164	Tryptone Broth, 1%		
M161	Tryptone Broth and Tryptone Salt Broths		
M162	Tryptone Phosphate (TP) Broth		
M163	Tryptone Salt (T <sub>1</sub> N <sub>1</sub> ) Agar		
M163	T <sub>1</sub> N <sub>2</sub> Agar		
M165	Tryptone Yeast Extract Agar		
M166	Tryptose Blood Agar Base		
M167	Tryptose Agar (for serology)		C7170, C7171, C7172, C7173, C7174
M167	Tryptose Broth (for serology)		C7200, C7201, C7202, C7203, C7204
M168	Tryptose Phosphate Broth (TPB)		C7210, C7211, C7212, C7213, C7214
M169	Tryptose-Sulfite-Cycloserine (TSC) Agar	K175	
M170	Tyrosine Agar		
M188	Universal Preenrichment Broth		
M171	Urea Broth		
M172	Urea Broth (Rapid)	Y141	
M173	Veal Infusion Agar		
M173	Veal Infusion Broth		
M191	Vibrio parahaemolyticus Sucrose Agar (VPSA)		

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M190	Vibrio vulnificus Agar (VVA)		
M174	Violet Red Bile Agar (VRBA)	G78	C7260, C7261, C7262, C7263, C7264
M175	Violet Red Bile-MUG Agar (VRBA-MUG)		C7250, C7251, C7252, C7253, C7254
M176	Vogel-Johnson (VJ) Agar	G193	C7280, C7281, C7282, C7283, C7284
M177	Voges-Proskauer Medium (Modified)	K37	C6410, C6411, C6412, C6413, C6414
M178	Wagatsuma Agar		
M179	Xylose Lysine Deoxycholate (XLD) Agar	G65	C7320, C7321, C7322, C7323, C7324
M180	Y-1 Adrenal Cell Growth Medium		
M181	Yeast Extract (YE) Agar		C7340, C7341, C7342, C7343, C7344
M35	Yersinia Selective Agar (YSA)		

\* Supplemental products may be required. See reference listed below.

## REFERENCES

1. Vanderzant, C. and Splittstoesser, D.F., eds. *Compendium of Methods for the Microbiological Examination of Foods*, 8th ed., Rev. A. American Public Health Association, Washington D.C., 2005.

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specialità biologiche

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