



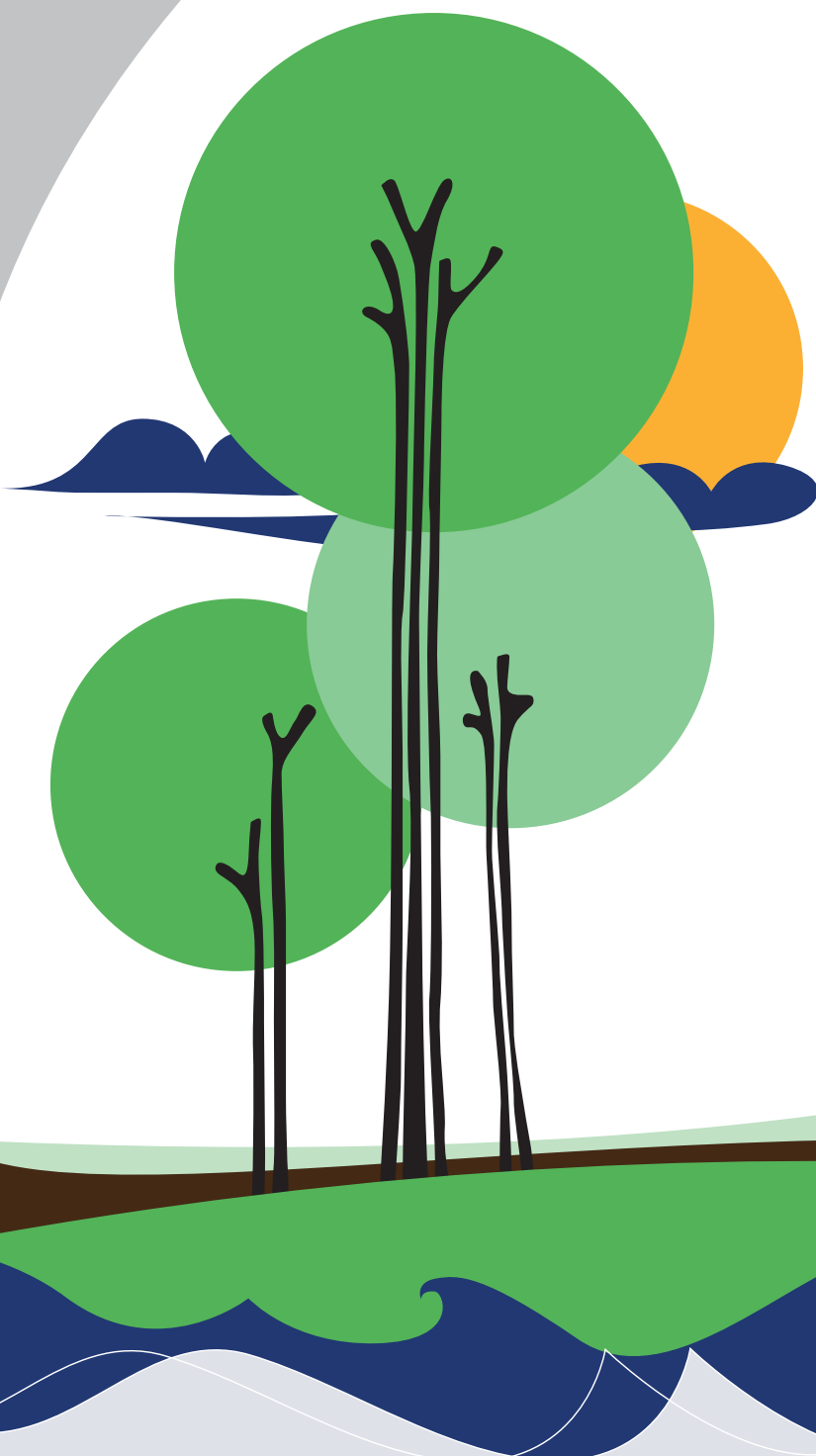
ielab

Making quality control easy

REFERENCE
MATERIALS
CATALOGUE
FOR PHYSICAL-CHEMICAL
AND MICROBIOLOGICAL
LABORATORIES

2019

Issue: January 2019





ielab is a company engaged to provide services and products for the application of quality in testing laboratories, that offers among many others, the organization of international Proficiency Testing Schemes, manufacturing and sale of physical-chemical and microbiological reference materials, technical consultancy of quality systems, etc.

The present catalogue is the result of the work that has been developed by our R+D+i Department and our Quality Department, that have as reference the quality, the independence and to give answer to the technological necessities that are arising in the exercise of our work. They also have given responses to the necessities that the application of the quality requires and the new challenges that continuously arise.



ielab has obtained its accreditation as a Reference Material Producer, following ISO 17034 standard, with file number 01/PMR001. This award is a great achievement for ielab reference materials and thus we become the first Spanish company that earns this type of accreditation as a Reference Material Producer. Due to its characteristics as accredited reference materials and all technical requirements that its production entails, we believe this product will be very useful for the quality controls in many laboratories.

Many of our physical-chemical reference materials are certified in the process of Proficiency Testing Schemes, reason why new materials with each closed round are included. It is for the reason of this constant process of research, innovation and application to the quality that this catalogue is something dynamic and in a continuous change.

For that reason we invite you to visit our Web page www.ielab.es where you can find our latest catalogue and diverse information that surely will be of your interest. Trusting our cooperation can contribute to the continuous improvement of the quality of your laboratory, we hope you enjoy your visit to our website.

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PHYSICAL-CHEMICAL REFERENCE MATERIALS

ielab presents a wide range of reference materials that have been specially designed to make easy all the quality control tasks accomplished in diagnostic laboratories.

All the supplied material comes accompanied by the corresponding Certificate of Analysis and User Guide.

Properties of the physical-chemical reference materials

ielab reference materials are obtained through Proficiency Testing Schemes accredited by the Spanish National Accreditation Body (ENAC), in which a great number of national and international laboratories take part.

Each of these laboratories that are participating in Proficiency Testing Schemes have different working methodologies, which gives very robust results.

For the production of these materials, the standards established in the ISO 17034 standard, which indicate the general requirements for all the reference materials producers, are followed.

The greatest part of the provided material is of natural origin and with analyte concentration levels similar to real samples that are analyzed in laboratories. Necessary homogeneity and stability tests are made to these materials to calculate the property value according to the ISO GUIDE 35.

The certificate that accompanies the material fulfils the established requirements of the ISO GUIDE 31 including the corresponding homogeneity and stability studies, the statistical study of results and the concentration and uncertainties of the provided materials.

ielab has recently obtained the accreditation as a Reference Material Producer, following ISO 17034 standard. Due to its characteristics as accredited reference materials and all technical requirements that its production entails, we believe this product will be very useful for the quality controls in many laboratories.



Advantages of the physical-chemical reference materials

Quality guarantee: For its production the standards established in the ISO 17034 standard are followed, statistical criteria defined in the ISO GUIDE 35 have been used to obtain the property value and the certificate fulfills the ISO GUIDE 31, and at present **ielab** is the first Spanish company Accredited as a Reference Material Producer.

Natural: The greatest part of the provided materials is of NATURAL ORIGIN, allowing to reproduce customary testing conditions.

Stable: The stability of the samples is proven according to the established under the standard ISO 13528:2015, being analyzed by a method accredited under the standard EN ISO/IEC 17025.

Homogeneous: Statistical studies are carried out of the variability, as it is established in the ISO GUIDE 35 and according to the IUPAC protocol, being analyzed by a method accredited under the standard EN ISO/IEC 17025.

Flexible: Materials for various matrixes and with many different parameters are available.

WASTE WATER

Type 1 (part No. 990592)

Type 2 (part No. 990604)

Coming from WWTP with urban or industrial origin. These reference materials are provided in containers of 500 or 100 mL,

Shelf-life: 6 months.

POTABLE WATER

Type 1 (part No. 990593)

Type 3 (part No. 990595)

Drinking waters coming from potable water supply. These reference materials are provided customarily in containers of 500 mL to exception of specific materials for the pH parameter which are packed in glass vials of 100 mL.

Shelf-life: 6 months.

ACCREDITED SLUDGES (part No. 990605)

ielab also has available certified reference material accredited by the Spanish National Accreditation Body (ENAC), of sludges from WWTP with urban or industrial origin. This material is supplied in 65 ml containers containing dry and sieved sludge.

Shelf-life: 12 months.



SLUDGES (part No. 990596)

Coming from WWTP with urban or industrial origin. These materials are provided in containers of 65 mL containing dry and sieved sludge.

Shelf-life: 12 months.

SAMPLE SUPPORTS (part No. 990598)

These reference materials are presented in transparent cases which contain the filters. Each batch of filters consists of three blank filters and three spiked filters.

Shelf-life: 6 months.

SEA WATER (part No. 990599)

Taken directly of the Mediterranean sea. These reference materials are provided in containers of 500 mL, to exception of the specific materials for the pH parameter which are packed in glass vials of 100 mL.

Shelf-life: 6 months.

SOILS (part No. 990600)

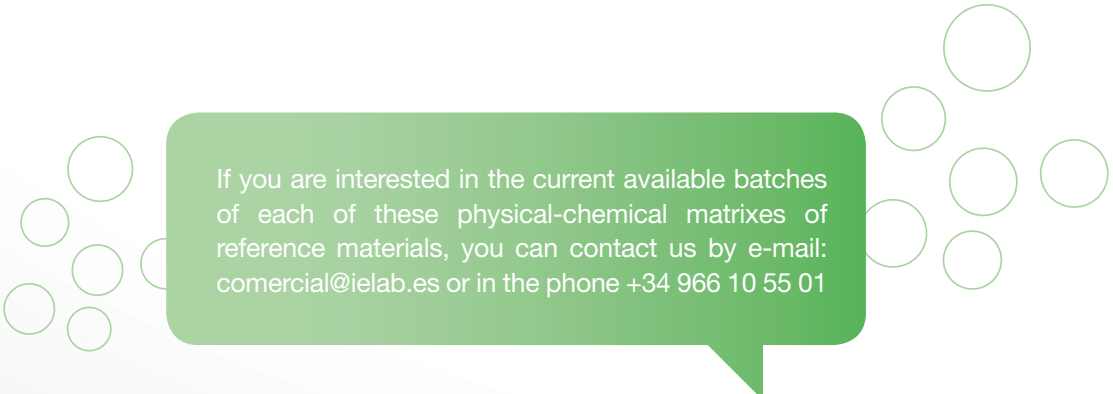
These reference materials are presented in bottles containing 65 mL of dried and sieved soil.

Shelf-life: 12 months.

IMPINGER SOLUTIONS (part No. 990597)

These reference materials are provided in containers of 500 mL. A blank reference sample is always included with the spiked sample capture solution.

Shelf-life: 6 months.



If you are interested in the current available batches of each of these physical-chemical matrixes of reference materials, you can contact us by e-mail: comercial@ielab.es or in the phone +34 966 10 55 01

MICROBIOLOGICAL REFERENCE MATERIALS

ielab presents, within the framework of its line of products for microbiological diagnostics, a range of reference materials, which have been specially designed to facilitate all stages of quality control performed in diagnostic laboratories.

ielab has obtained the accreditation as a Reference Material Producer, following ISO 17034 standard. Due to its characteristics as accredited reference materials and all technical requirements that its production entails, we believe this product will be very useful for the quality controls in many laboratories.

Properties of the microbiological reference materials

ielab microbiological reference materials are quantified by certification tests performed by a network of laboratories accredited by ENAC (Spanish National Accreditation Body) according to the norm EN ISO/IEC 17025.

For the production of these materials, we follow the requirements of ISO 17034 standard, which indicate the general requirements for all the producers of reference materials.

All supplied material includes a User Guide and the corresponding Document/ Certificate of Analysis.

ielab has signed a Material Transfer Agreement (MTA) with the Spanish Type Culture Collection (Colección Española de Cultivos Tipo, CECT ®) under the modality 2*, by virtue of which its accredited products are traceable to CECT ® strains, as an internationally recognized Type Culture Collection



*Modality 2: Transfers where a subsequent distribution is authorized by the recipient or buyer of the MGR (Microbial Genetic Resource), as long as the recipient user of the MGR has a demonstrated capacity to maintain the registry of the individuals or institutions to which the MGRs are transferred.

Advantages of the microbiological reference materials

Simple: The preparation of the material is extremely simple, as the presentation is in tablet form (except for BACuanti-DNA) and is supplied in an easy-to-use sterile plastic device, or in individual vials, avoiding the need of multiple manipulations.

Rapidity: It takes only 3 steps and 10 minutes to have ready bacterial suspensions of a known count.

Easy storage: In a conventional freezer (-20 ± 5 °C).

Safety: There is no risk of contamination, as manipulation is reduced to the minimum.

Traceability: Strains used come from different Type Culture Collections and bear one subculture from lyophilized reference strain employed (stock strain).

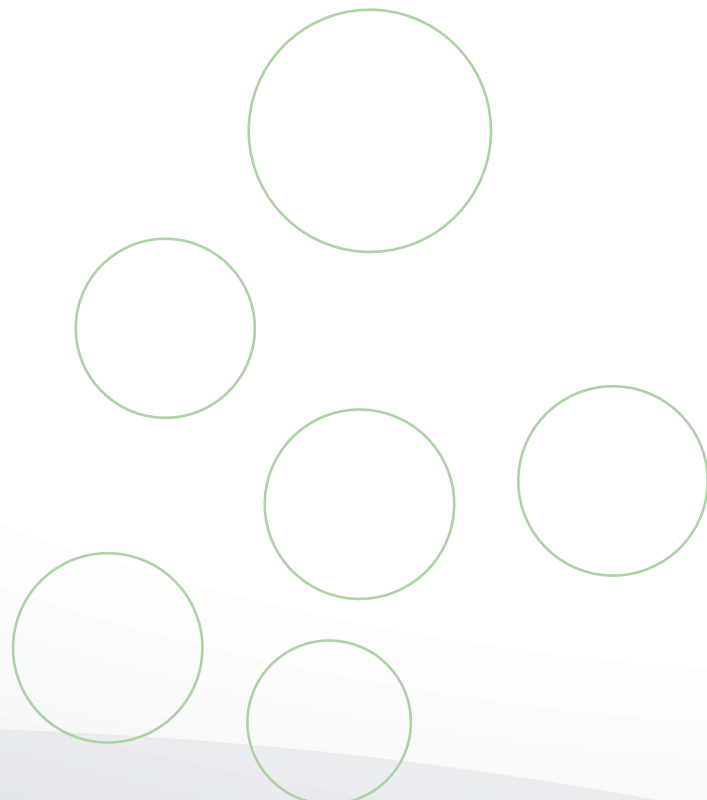
Known concentration: The existing concentration of the material is certified.

Flexibility: There are different formats for diverse microorganisms, and are available in three concentration ranges: low, intermediate and high concentration.

Customization: Besides the species available from stock, there is the possibility of preparing reference material for other microorganisms at a concentration predefined by the client. Please contact our Sales Department for further information.

Quality: **ielab** was awarded the accreditation as a Reference Material Producer, according to ISO 17034 (BACredi)

Price: Very good value for money.



ielab microbiological reference materials products

ielab offers three kinds of microbiological reference materials: General Microbiology, Pharmacopoeia and BACredi Accredited Reference Material.

Besides, there are four possible concentration ranges: low, intermediate, high and extra-high.

CONCENTRATION	GENERAL MICROBIOLOGY	PHARMACOPOEIA	ACCREDITED MATERIAL
LOW	< 100 cfu/tablet	< 100 cfu/0.1mL	< 100 cfu/tablet
INTERMEDIATE	100-1,000 cfu/tablet	N / A	100-1,000 cfu/tablet
HIGH	> 1,000 cfu/tablet	> 100 cfu/0.1mL	> 1,000 cfu/tablet
EXTRA HIGH	N / A	10 ⁵ -10 ⁶ cfu/0.1mL	N / A

The concentration is calculated dissolving one tablet in 20mL of sterile water, following the User Guide that is supplied with the product. Please do not hesitate to contact us at comercial@ielab.es in order to ask about the exact concentrations of the batches we have available at any moment.

On the following table you can see some suggestions about some species you can use in order to test some parameters:

Parameter	Suggested species
Total coliforms	<i>Escherichia coli</i> <i>Citrobacter freundii</i> <i>Klebsiella oxytoca</i> <i>Enterobacter aerogenes</i>
Faecal coliforms	<i>Escherichia coli</i> <i>Klebsiella oxytoca</i> <i>Enterobacter aerogenes</i>
Faecal streptococci / Enterococci	<i>Enterococcus faecalis</i> <i>Enterococcus faecium</i>
Aerobic bacteria at 22°C or 37°C / Total plate count	<i>Candida albicans</i> <i>Enterococcus faecalis</i> <i>Enterococcus faecium</i> <i>Escherichia coli</i>

OTHER MRM SERVICES: TAILOR MADE STRAINS

This year, as a novelty, to expand and give a better service to our customers, ielab offers the possibility of working with strains that are not included in our catalogue and which you are interested in. For this purpose, feel free to contact us to receive personalized and individual attention by our email comercial@ielab.es, or by phone + 34 966 10 55 01.

BAControl

Description: this is a quantitative material in which each tablet contains a specific number of viable and culturable cells, obtained by the manufacturer under the test conditions specified in the Analysis Report.

Applications: it is a material which is appropriate for carrying out routine quality control procedures, such as process controls, creation of control charts, or quality control of culture media.

Shelf-life: it has a shelf life of 12 months after the batch is released. Items supplied will have at least 6 months of shelf life.

Presentation: supplied in boxes containing 10 vials with one tablet each (BAControl-10) or in a sterile dispenser of 5 tablets (BAControl-5).

 *You can find all references of BAControl on pages 12 to 18.*

BACuanti

Description: this is a quantitative material in which each tablet contains a specific number of viable and culturable cells, obtained from the certification studies performed by a network of accredited laboratories according to EN ISO/IEC 17025.

Applications: the material is appropriate for the validation of methods, and quantitative quality controls.

Shelf-life: it has a shelf life of 6 months after the batch is released. Items supplied will have at least 3 months of shelf life.

Presentation: is supplied in a sterile dispenser of 5 tablets.

 *You can find all references of BACuanti on pages 12 to 18.*

BACuali

Description: this is a qualitative material in which the identity of the microorganism is stated.

Applications: appropriate for validation of qualitative methods and for the accomplishment of quality controls where quantification is not required.

Shelf-life: it has a shelf life of 12 months after the batch is released. Items supplied will have at least 6 months of shelf life.

Presentation: supplied in a sterile dispenser of 5 tablets.

 *You can find all references of BACuali on pages 12 to 18.*

	BACControl	BACuanti	BACuali
Description	<ul style="list-style-type: none"> Quantitative material, in tablets format 	<ul style="list-style-type: none"> Certified quantitative material, in tablets format 	<ul style="list-style-type: none"> Qualitative material, in tablets format
Applications	<ul style="list-style-type: none"> Rutine quality controls Process controls Control chart Quality control son cultura media 	<ul style="list-style-type: none"> Method validation Quality controls 	<ul style="list-style-type: none"> Rutine quality controls which do not need quantification
Shelf life	<ul style="list-style-type: none"> 12 months 	<ul style="list-style-type: none"> 6 months 	<ul style="list-style-type: none"> 12 months
Presentation	<ul style="list-style-type: none"> 10 vials box Dispenser of 5 tablets 	<ul style="list-style-type: none"> Dispenser of 5 tablets 	<ul style="list-style-type: none"> Dispenser of 5 tablets
Available concentrations	<ul style="list-style-type: none"> Low Intermediate High Extra-high 	<ul style="list-style-type: none"> Low Intermediate High Extra-high 	<ul style="list-style-type: none"> N/A



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General Microbiology

Applications: methods validation, research projects, internal quality controls, equipment calibration, quality control of culture media, microbial detection and count, etc.

The concentration is calculated dissolving one tablet in 20mL of sterile water, following the User Guide that is provided with the product.

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/tablet)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Aspergillus brasiliensis - niger</i> (CECT 2574)	WDCM 00053; ATCC 16404; B 39906; B 42936; CABIM 149007; CBS 733.88; CCTM La 2212; DSMZ 1387; DSMZ 1988; FRR 6034; IFO 9455; IHEM 2311; IHEM 3766; IHEM 3794; IMI 149007; MUCL 29039; NCPF 2275; Ringel WLRI 034(120); UMIP 1431.8	BACControl-5	990160	990386	990161
		BACControl-10	990164	990387	990165
		BACuanti	990189	990388	990190
		BACuali	990167 Qualitative material		
<i>Aspergillus caesiellus</i> (CECT 20807)	WDCM 00183; ATCC 42693; FRR 2176; IAM 13845; JCM 12743	BACuali	992508 Qualitative material		
<i>Bacillus cereus</i> (CECT 193)	WDCM 00001; ATCC 9634; ATCC 11778; BTCC 924; BUCSAV 424; CCM 869; CCRC 10446; CCTM La 1138; CCUG 7415; CCUG 10781; CFBP 488; CFBP 1964; CIP 64.52; CNCTC Bc 7/69; DSMZ 345; DSMZ 4490; FDA PCI 213; HNCMB 100003; FO 3836; IL 1; IMET 10884; LMD 61.21; LMG 8221; NCFB 720; NCIMB 8012; NCIMB 9231; NCTC 10320; PCI 213; PCM 1948; PCM 2019; Prunier 104-4; Waksman strain O	BACControl-5	990316	990389	990321
		BACControl-10	990317	990390	990322
		BACuanti	990323	990391	990326
		BACuali	990315 Qualitative material		
<i>Bacillus cereus</i> (CECT 131)	ATCC 10876; CCRC 11267; FIRDI BA14; Hankey B43; IAM 1656; IAW 2; LMD 65.1; NCFB 721; NCIMB 8579; NCTC 7464; NRRL B-569; NRS 1256; PCM 2003	BACControl-5	992582	992583	992584
		BACControl-10	992585	992586	992587
		BACuanti	992588	992589	992590
		BACuali	992591 Qualitative material		
<i>Bacillus subtilis</i> (CECT 356)	WDCM 00003; ATCC 6633; BTCC 7241; BUCSAV 425; CCM 1999; CCRC 10447; CCTM La 2114; CCUG 10779; CFBP 1963; CIP 52.62; CNCTC Bs 8/58; DSMZ 347; GISK 010011; Hankey B14; HMGB B100; HNCMB 100007; IAM 1069; IAW 15; IFO 3134; IFO 13720; IL 13; IMET 10880; JCM 2499; LMD 89.157; LMD 47.15; LMG 8197; NCAIM B.01268; NCFB 1733; NCIMB 8566; NCTC 10400; NRRL NRS-231; NRS 231; PCM 219; PCM 1949; PCM 2021; PZH 729; VKM 720; VTT E-85231; WHO 9	BACControl-5	990208	990392	990210
		BACControl-10	990209	990393	990211
		BACuanti	990212	990394	990213
		BACuali	990207 Qualitative material		
			Part No.		

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General Microbiology

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/tablet)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Candida albicans</i> (CECT 1394)	WDCM 00054; ATCC 10231; B 42904; CBS 6431; CCTM La 2785; CCY 29-3-106; DSMZ 1386; Emmons 3149; HAMB1 484; IFO 1594; IHEM 4263; JCM 2085; MUCL 30114; NCPF 3179; NCYC 1363; NIH 3147; UMIP 48.72; VTT C-85161	BACControl-5	990158	990395	990159
		BACControl-10	990162	990396	990163
		BACuanti	990191	990397	990192
		BACuali	990166 Qualitative material		
<i>Citrobacter freundii</i> (CECT 4626)	WDCM 00077; NCTC 6272; NCIMB 8645; strain B	BACControl-5	990100	990398	990101
		BACControl-10	990129	990399	990130
		BACuanti	990068	990400	990082
		BACuali	990067 Qualitative material		
<i>Citrobacter freundii</i> (CECT 7464)	WDCM 00006; ATCC 43864; CCUG 53829; CIP 103547; LMG 21265; LRA 117.03.76	BACControl-5	992602	992603	992604
		BACControl-10	992605	992606	992607
		BACuanti	992608	992609	992610
		BACuali	992523 Qualitative material		
<i>Clostridium bifermentans</i> (CECT 550)	WDCM 00079; NCTC 506; CIP 110068; CN 4781; NCFB 1711; NCIMB 506; F1	BACControl-5	990516	990519	990522
		BACControl-10	990517	990520	990523
		BACuanti	990518	990521	990524
		BACuali	990525 Qualitative material		
<i>Clostridium perfringens</i> (CECT 376 T)	WDCM 00007; ATCC 13124; ATCC 19408; CCM 5744; CCRC 10913; CCTM La 2957; CCUG 1795; CIP 103409; CN 1491; CNCTC CI 68/83; DSMZ 756; FIRDI 913; JCM 1290; LMD 89.165; LMG 11264; NCAIM B.01417; NCIMB 6125; NCTC 6125; Schmidt S 107	BACControl-5	990098	990401	990099
		BACControl-10	990131	990402	990132
		BACuanti	990066	990403	990081
		BACuali	990065 Qualitative material		
<i>Clostridium sporogenes</i> (CECT 797)	ATCC 11437; CCRC 13856; CCTM La 3546; CCUG 31316; CIP 100651; IFO 14293; McClung 2006; NCAIM B.01416; NCIMB 12343	BACControl-5	990215	990404	990217
		BACControl-10	990216	990405	990218
		BACuanti	990219	990406	990220
		BACuali	990214 Qualitative material		
<i>Clostridium sporogenes</i> (CECT 485)	WDCM 00008; ATCC 19404; CCM 4409; CCRC 11258; CCTM La 2951; CCUG 7489; CCUG 18371; CIP 79.3; CNCTC CI 66/79; DSMZ 1664; LMD 85.28; LMG 10143; NCFB 1710; NCIMB 532; Robertson SR5	BACControl-5	990285	990407	990291
		BACControl-10	990286	990408	990292
		BACuanti	990293	990409	990296
		BACuali	990284 Qualitative material		
<i>Enterobacter aerogenes</i> (CECT 684 T)	WDCM 00175; ATCC 13048; CCRC 10370; CCTM La 2835; CCUG 1429; CDC 819-56; CIP 60.86; CNCTC Ae 10/86; CUETM 77-29; FIRDI 370; HAMB1 101; HAMB1 1276; IAM 12348; IFO 13534; JCM 1235; Kosako 226; LMG 2094; LMG 2968; NCIMB 10102; NCTC 10006; PCM 532; RIMD 0505001; Sakazaki 226; VTT E-88325	BACControl-5	990380	990410	990381
		BACControl-10	990467	990411	990470
		BACuanti	990468	990412	990471
		BACuali	990469 Qualitative material		
<i>Enterococcus faecalis</i> (CECT 481 T)	WDCM 00009; ATCC 19433; CCRC 10066; CCUG 19916; CIP 103015; CNCTC Str 3/86; DSMZ 20478; FIRDI 66; HNCMB 80171; JCM 5803; LMG 7937; NCAIM B.01312; NCFB 581; NCTC 775; Tissier; RIMD 3116001; VTT E-93203	BACControl-5	990298	990413	990304
		BACControl-10	990299	990414	990305
		BACuanti	990306	990415	990309
		BACuali	990297 Qualitative material		

Part No.

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General Microbiology

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/tablet)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Enterococcus faecium</i> (CECT 410 T)	WDCM 00010; ATCC 19434; CCRC 10067; CCTM La 2367; CCUG 542; CIP 103014; DSMZ 20477; GIFU 8355; JCM 5804; LMG 8149; LMG 11423; NCFB 942; NCIMB 11508; NRIC 1145; strain OJ; VTT E-93204	BACControl-5	990096	990416	990097
		BACControl-10	990133	990417	990134
		BACuanti	990064	990418	990080
		BACuali	990063 Qualitative material		
<i>Escherichia coli</i> * (CECT 516)	WDCM 00012; ATCC 8739; CCRC 11634; CCTM La 2194; CCUG 10979; CIP 53.126; DSMZ 1576; Crooks; IFO 3972; IMET 11121; LMG 8063; NCFB 904; PCM 2561; VTT E-76039	BACControl-5	990169	990419	990171
		BACControl-10	990170	990420	990172
		BACuanti	990173	990421	990174
		BACuali	990168 Qualitative material		
<i>Escherichia coli</i> Recomended for test based on defined substrate technology. (CECT 515 T)	WDCM 00090; ATCC 11775; NCTC 9001 BTCC U5/41; CAPM 6101; CCM 5172; CCRC 10675; CCTM La 2067; CCUG 24; CIP 54.8; CN 4382; CNCTC Eck 58/59; CNCTC Eck 206/59; DSMZ 30083; FIRDI 675; GISK 240001; IAM 12119; JCM 1649; Kauffmann U 5/41; LMD 54.8; LMG 2092; NCFB 1989; NCIMB 11943; PCM 172; PCM 321; SSIC U 5/41; USCC 2054	BACControl-5	990496	990499	990502
		BACControl-10	990497	990500	990503
		BACuanti	990498	990501	990504
		BACuali	990505 Qualitative material		
<i>Escherichia coli</i> (CECT 434)	WDCM 00013; ATCC 25922; CCM 3954; CCRC 14902; CCTM La 2184; CCUG 7736; CCUG 17620; CCUG 21456; CIP 76.24; CNCTC Ec 327/73; DSM 1103; FDA Seattle 1946; GISK 240533; HER 1176; IFO 15034; JCM 5491; LMG 8223; NCIMB 12210; PCM 2057	BACControl-5	990094	990422	990095
		BACControl-10	990135	990423	990136
		BACuanti	990062	990424	990079
		BACuali	990061 Qualitative material		
<i>Escherichia coli</i> (CECT 405)	ATCC 10536; NCTC 10418; PC1-540; WHO-5; strain Macleod	BACControl-5	992538	992539	992540
		BACControl-10	992541	992542	992543
		BACuanti	992556	992557	992558
		BACuali	992524 Qualitative material		
<i>Escherichia coli h</i> (CECT 9153)	WDCM 00202; NCTC 13216; CCM 7395	BACControl-5	992544	992545	992546
		BACControl-10	992547	992548	992549
		BACuanti	992559	992560	992561
		BACuali	992522 Qualitative material		
<i>Eurotium rubrum</i> (CECT 20808)	WDCM 00184; ATCC 42690; FRR 1968; IAM 13896; JCM 22919	BACuali	992509 Qualitative material		
<i>Klebsiella oxytoca</i> (CECT 860 T)	ATCC 13182; CCRC 13985; CCUG 20633; CIP 103434; CNCTC Klp 92/83; CUETM 77-113; DSM 5175; Jain 497-2; JCM 1665; Kosako 82060; LMG 3055; NBRC 105695; NCIMB 12259; RH 497-2; Sakazaki 181	BACControl-5	990343	990425	990349
		BACControl-10	990344	990426	990350
		BACuanti	990351	990427	990354
		BACuali	990342 Qualitative material		
Part No.					

* This strain is indicated by European Pharmacopoeia to be employed in pharmaceutical processes and it is available also at concentrations of <100 cfu/0.1 mL, >100 cfu/0.1mL or 10⁵-10⁶ cfu/0.1mL.

If you cannot find the strain you are looking for, please feel free to contact us by our email comercial@ielab.es, or by phone + 34 966 10 55 01

General Microbiology

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/tablet)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Klebsiella pneumoniae</i>	WDCM 00206; ATCC 31488	BACControl-5	990680	990683	990686
		BACControl-10	990681	990684	990687
		BACuanti	990682	990685	990688
		BACuali	990689 Qualitative material		
<i>Lactococcus lactis</i> (CECT 185 T)	WDCM 00016; ATCC 9936; ATCC 19435; Bridge PB48; Bridge PB93; BUCSAV 302; Cayeux N30; CCM 1877; CCRC 12312; CCTM La 3436; CCUG 7980; CCUG 32211; CIP 70.56; CNCTC Str 25/58; DSMZ 20481; Feltham K466; HNCMB 80146; IMET 10699; JCM 5805; Jones W59; Lancefield C559; LMG 6890; NCFB 604; NCTC 6681; Shattock lactis OJ; USCC 1394; VTT E-90395	BACControl-5	992592	992593	992594
		BACControl-10	992595	992596	992597
		BACuanti	992598	992599	992600
		BACuali	992601 Qualitative material		
<i>Legionella anisa</i> Recommended in assays following the current Norm ISO (cellulose filters). (CECT 8177 T)	WDCM 00106; ATCC 35292; NCTC 11974	BACControl-5	990526	990529	990532
		BACControl-10	990527	990530	990533
		BACuanti	990528	990531	990534
		BACuali	990535 Qualitative material		
<i>Legionella anisa</i> polycarbonate Recommended in assays following the current Norm ISO(polycarbonate/nylon filters). (CECT 8177 T)	WDCM 00106; ATCC 35292; NCTC 11974	BACControl-5	-	-	990537
		BACControl-10	-	-	990538
		BACuanti	-	-	990539
		BACuali			
<i>Legionella jordanis</i> Recommended in assays following the current Norm ISO (cellulose filters). (NCTC 11533)	ATCC 33623; BL 540	BACControl-5	990124	990431	990125
		BACControl-10	990139	990432	990140
		BACuanti	990127	990433	990128
		BACuali	990126 Qualitative material		
<i>Leg. jordanis</i> polycarbonate Recommended in assays following the current Norm ISO(polycarbonate/nylon filters). (NCTC 11533)	ATCC 33623; BL 540	BACControl-5	-	-	990495
		BACControl-10	-	-	990494
		BACuanti	-	-	990493
		BACuali			

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General Microbiology

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/tablet)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Legionella pneumophila</i> sg.1 Recommended in assays following the current Norm ISO (cellulose filters). (CECT 7109 T)	WDCM 00107; ATCC 33152; Philadelphia 1; CCUG 9568; DSM 7513; JCM 7571; NCTC 11192	BAControl-5	990102	990428	990103
		BAControl-10	990137	990429	990138
		BACuanti	990073	990430	990078
		BACuali	990072 Qualitative material		
<i>Leg.pneumophila</i> policarbonate sg.1 Recommended in assays following the current Norm ISO(policarbonate/nylon filters). (CECT 7109 T)	WDCM 00107; ATCC 33152; Philadelphia 1; CCUG 9568; DSM 7513; JCM 7571; NCTC 11192	BAControl-5	-	-	990477
		BAControl-10	-	-	990478
		BACuanti	-	-	990077
		BACuali			
<i>Legionella pneumophila</i> sg.5 Recommended in assays following the current Norm ISO (cellulose filters). (CECT 7274)	ATCC 33216; CCUG 13399; Dallas 1E	BAControl-5	990482	990484	990486
		BAControl-10	990483	990485	990487
		BACuanti	990488	990489	990490
		BACuali	990481 Qualitative material		
<i>Listeria innoqua</i> (CECT 910 T)	WDCM 00017; ATCC 33090; CCM 4030; CCRC 14843; CCTM La 2676; CIP 80.11; CNCTC Li 71/89; DSMZ 20649; LMG 11387; NCTC 11288; Seeliger Li 58; SLCC 3379	BAControl-5	992572	992573	992574
		BAControl-10	992575	992576	992577
		BACuanti	992578	992579	992580
		BACuali	992581 Qualitative material		
<i>Listeria monocytogenes</i> (CECT 935)	WDCM 00021; ATCC 13932; CCM 5580; CCTM La 1206; CIP 59.53; CNCTC Li 19/58; IID 581; NCTC 10527; Paterson 1071; SLCC 2375	BAControl-5	990113	990434	990114
		BAControl-10	990141	990435	990142
		BACuanti	990119	990436	990118
		BACuali	990117 Qualitative material		
<i>Listeria monocytogenes</i> (CECT 5366)	ATCC 19115 ;CIP 78.38; SLCC 2375; strain Li2	BAControl-5	992562	992563	992564
		BAControl-10	992565	992566	992567
		BACuanti	992568	992569	992570
		BACuali	992571 Qualitative material		
<i>Micrococcus luteus</i> (CECT 5863 T)	WDCM 00111; ATCC 4698; CCM 169; CECT 51; CECT 5053; CIP A270; DSM 20030; HAMB1 26; HAMB1 1399; IEGM 391; JCM 1464; LMG 4050; NBRC 3333; NCCB 78001; NCTC 2665; NCIB 9278; NRRL B-287; VKM B-1314	BAControl-5	990356	990437	990362
		BAControl-10	990357	990438	990363
		BACuanti	990364	990439	990367
		BACuali	990355 Qualitative material		

Part No.

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General Microbiology

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/tablet)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Mucor racemosus</i> (CECT 20821)	WDCM 00181; ATCC 42647; CBS 906.69; CCUG 33992; CCUG 34352	BACuali	992510 Qualitative material		
<i>Pseudomonas aeruginosa</i> * (CECT 111)	WDCM 00026; ATCC 9027; BUCSAV 278; CCM 1961; CCRC 11633; CCTM La 3362; CCUG 22801; CIP 82.118; CNCTC Ps 37/65; DSMZ 1128; DSMZ 1385; Hugh 813; IAM 10374; IFO 13275; IMET 10905; LMG 8029; NRRL B-800; PCM 2562; RH 813;	BACControl-5	990183	990440	990185
		BACControl-10	990184	990441	990186
		BACuanti	990187	990442	990188
		BACuali	990182 Qualitative material		
<i>Pseudomonas aeruginosa</i> (CECT 110 T)	WDCM 00024; ATCC 10145; AJ 2116; BUCSAV 277; CCEB 481; CCEB 766; CCM 481; CCM 1960; CCRC 10944; CCTM La 2773; CCUG 551; CCUG 28447; CCUG 29297; CFBP 2466; CIP 100720; CNCTC Ps 153/77; DSMZ 50071; FIRDI 944; GISK 190154; HAMB I 25; IAM 1514; ICPB 2523; IFO (now NBRC) 12689; IMET 10403; IMET 12689; JCM 5962; KM 274; Kosako 85002; LMD 76.39; LMG 1242; NCFB 1369; NCPBP 1965; NCTC 10332; NRRL B-771; PCM 499; PD 971; PD 1816; RH 815; UQM 495; USCC 2030; VKM B-588; VTT E-75041	BACControl-5	990506	990509	990512
		BACControl-10	990507	990510	990513
		BACuanti	990508	990511	990514
		BACuali	990515 Qualitative material		
<i>Pseudomonas aeruginosa</i> (CECT 108)	WDCM 00025; ATCC 27853; CCM 3955; CCRC 11864; CCTM La 2766; CCUG 1423; CCUG 17619; CIP 76.110; CNCTC Ps 162/78; DSMZ 1117; GISK 190127; Hansen H50; LMD 89.161; LMD 90.9; LMG 6395; Medeiros Boston 41501; NCIMB 12469	BACControl-5	990106	990443	990107
		BACControl-10	990143	990444	990144
		BACuanti	990092	990445	990091
		BACuali	990089 Qualitative material		
<i>Pseudomonas fluorescens</i> (CECT 378 T)	WDCM 00115; ATCC 13525; CCEB 488; CCEB 546; CCEB 762; CCM 2115; CCRC 11028; CCTM La 3364; CCUG 1253; CFBP 2102; CIP 69.13; CNCTC Ps 154/77; DSM 50090; HAMB I 27; HNCMB 173001; Hugh 818; IAM 12022; ICPB 3200; IFO 14160; IMET 10619; IFO (now NBRC) 14160; JCM 5963; Kado 11D42; LMG 1794; NCFB 1524; NCPBP 1964; NCTC 10038; Rhodes 28/5; Stanier 193; VKM 894; VTT E-93443	BACControl-5	990378	990446	990379
		BACControl-10	990472	990447	990475
		BACuanti	990473	990448	990476
		BACuali	990474 Qualitative material		
<i>Saccharomyces cerevisiae</i> (CECT 1317)	ATCC 24904; ATCC 9080; AJ 4033; B 24819; CBS 2354; CCRC 20855; CCTM La 2891; CCY 48-76; CNCTC 57/87; DBVPG 6248; DSMZ 70424; Hillman Hospital 4228; IAM 4206; IFO 0565; IHEM 3963; IP 2046.92; JCM 2223; NCYC 74; NRRL Y-1089; VKPM T 830; VTT A-66065; Windisch Sa-0607	BACControl-5	992611	992612	992613
		BACControl-10	992614	992615	992616
		BACuanti	992617	992618	992619
		BACuali	992525 Qualitative material		
<i>Saccharomyces cerevisiae</i> (CECT 1383)	WDCM 00058; ATCC 9763; B 42428; CBS 2978; CBS 5900; CCRC 20822; CCTM La 2895; CCY 21-4-48; CNCTC 51/65; DSMZ 1333; IAW 39; IHEM 3961; LCP 86.3379; LOCK 9; MUCL 30115; NCPF 3191; NCTC 7239; NCTC 10716; NCYC 87; NRRL Y-567; PCI M-50; UMIP 1432.83; VTT C-94203	BACControl-5	992532	992533	992534
		BACControl-10	992535	992536	992537
		BACuanti	992553	992554	992555
		BACuali	992521 Qualitative material		
Part No.					

* This strain is indicated by European Pharmacopoeia to be employed in pharmaceutical processes and it is available also at concentrations of <100 cfu/0.1 mL, >100 cfu/0.1mL or 10⁵-10⁶ cfu/0.1mL.

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General Microbiology

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/tablet)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Salmonella enterica subsp. enterica serovar Abony</i> (CECT 545)	WDCM 00029; NCTC 6017; CCTM La 2697; CCUG 21354; CIP 80.39; CNCTC SK 103; DSM 4224; PCM 2564; 74	BACControl-5	990201	990452	990203
		BACControl-10	990202	990453	990204
		BACuanti	990205	990454	990206
		BACuali	990200 Qualitative material		
<i>Salmonella enterica subsp. enterica serovar Typhimurium</i> (CECT 4594)	WDCM 00031; ATCC 14028; CCRC 10747; CDC 6516-60; CIP 104115; NCIMB 13284	BACControl-5	990194	990455	990196
		BACControl-10	990195	990456	990197
		BACuanti	990198	990457	990199
		BACuali	990193 Qualitative material		
<i>Salmonella enterica subsp. enterica serovar Thyphi</i> (CECT 409 T)	ATCC 19430; CCRC 12948; CIP 55.35; CNCTC Ta 19/45; CNCTC Ta 27/56; Felix Ty2; PCM 1901	BACControl-5	990111	990449	990112
		BACControl-10	990145	990450	990146
		BACuanti	990110	990451	990109
		BACuali	990090 Qualitative material		
<i>Staphylococcus aureus*</i> (CECT 239)	WDCM 00032; ATCC 6538; CCRC 12154; CCTM La 2103; CCUG 10778; CIP 4.83; CNCTC Mau 29/58; DSMZ 799; FDA 209; FIRDI 941; HMGB B865; IAW 34; IFO 13276; IMET 10761; LMD 46.64; LMG 8064; NCTC 10788; VTT E-70045	BACControl-5	990176	990458	990178
		BACControl-10	990177	990459	990179
		BACuanti	990180	990460	990181
		BACuali	990175 Qualitative material		
<i>Staphylococcus aureus</i> (CECT 435)	WDCM 00034; ATCC 25923; CCM 3953; CCRC 10781; CCTM La 2816; CCTM La 3561; CCUG 7738; CCUG 17621; CIP 76.25; CNCTC Mau 80/73; DSMZ 1104; FDA Seattle 1945; GISK 201189; IFO 14462; JCM 2413; LMD 90.23; LMG 8224; NCIMB 12702; PCM 2054	BACControl-5	990104	990461	990105
		BACControl-10	990147	990462	990148
		BACuanti	990087	990463	990088
		BACuali	990086 Qualitative material		
<i>Staphylococcus epidermidis</i> (CECT 232 T)	WDCM 00132; ATCC14990; AMIF strain Fussel; BTCC 2124; CCM 2124; CCRC 10785; CCTM La 2817; CCUG 18000; CIP 81.55; DSM 20044; GISK 202001; IAM 12013; JCM 2414; LMG 10474; NCAIM B.01066; NCIMB 12721; NCTC 11047; PCM 2118; Hugh RH 2466	BACControl-5	990328	990464	990334
		BACControl-10	990329	990465	990335
		BACuanti	990332	990466	990338
		BACuali	990341 Qualitative material		
<i>Staphylococcus saprophyticus</i> (CECT 235 T)	WDCM 00159; ATCC 15305; ATCC 19701; CCM 883; CCRC 10786; CCTM La 2818; CCUG 3706; CIP 76.125; Cowan S-41; GISK 203001; JCM 2427; LMD 73.11; NCAIM B.01067; NCFB 948; NCIMB 8711; NCTC 7292; PCM 2109	BACControl-5	992526	992527	992528
		BACControl-10	992529	992530	992531
		BACuanti	992550	992551	992552
		BACuali	992520 Qualitative material		
<i>Wallemia mellicola</i> (CECT 20820)	WDCM 00182; ATCC 42694; DSM 101886; FRR 1471	BACuali	992511 Qualitative material		
Part No.					

* This strain is indicated by European Pharmacopoeia to be employed in pharmaceutical processes and it is available also at concentrations of <100 cfu/0.1 mL, >100 cfu/0.1mL or 10⁵-10⁶ cfu/0.1mL.

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Pharmacopoeia

Applications: Growth Promotion test, Nutritional adequacy test, Microbial limits testing, microbial enumeration testing...

The concentration is obtained after dissolving one tablet in 20mL of sterile water, following the User Guide that is provided with the product.

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/0,1 mL)		
			LOW <100	HIGH >100	EXTRA-HIGH (10 ² -10 ⁹ ufc)
<i>Aspergillus brasiliensis-niger</i> (CECT 2574)	WDCM 00053; ATCC 16404; B 39906; B 42936; CABIM 149007; CBS 733.88; CCTM La 2212; DSMZ 1387; DSMZ 1988; FRR 6034; IFO 9455; IHEM 2311; IHEM 3766; IHEM 3794; IMI 149007; MUCL 29039; NCPF 2275; Ringel WLRI 034(120); UMIP 1431.8	BACControl-5	990221	990263	990368
		BACControl-10	990222	990264	990369
		BACuanti	990223	990265	-
		BACuali	990167 Qualitative material		
<i>Bacillus cereus</i> (CECT 193)	WDCM 00001; ATCC 9634; ATCC 11778; BTCC 924; BUCAV 424; CCM 869; CCRC 10446; CCTM La 1138; CCUG 7415; CCUG 10781; CFBP 488; CFBP 1964; CIP 64.52; CNCTC Bc 7/69; DSMZ 345; DSMZ 4490; FDA PCI 213; HNCMB 100003; IFO 3836; IL 1; IMET 10884; LMD 61.21; LMG 8221; NCFB 720; NCIMB 8012; NCIMB 9231; NCTC 10320; PCI 213; PCM 1948; PCM 2019; Prunier 104-4; Waksman strain O	BACControl-5	990318	990319	-
		BACControl-10	990310	990320	-
		BACuanti	990324	990325	-
		BACuali	990315 Qualitative material		
<i>Bacillus subtilis</i> (CECT 356)	WDCM 00003; ATCC 6633; BTCC 7241; BUCAV 425; CCM 1999; CCRC 10447; CCTM La 2114; CCUG 10779; CFBP 1963; CIP 52.62; CNCTC Bs 8/58; DSMZ 347; GISK 010011; Hankey B14; HMGB B100; HNCMB 100007; IAM 1069; IAW 15; IFO 3134; IFO 13720; IL 13; IMET 10880; JCM 2499; LMD 89.157; LMD 47.15; LMG 8197; NCAIM B.01268; NCFB 1733; NCIMB 8566; NCTC 10400; NRRL NRS-231; NRS 231 PCM 219; PCM 1949; PCM 2021; PZH 729; VKM 720; VTT E-85231; WHO 9	BACControl-5	990239	990254	990384
		BACControl-10	990240	990255	990385
		BACuanti	990241	990256	-
		BACuali	990207 Qualitative material		
<i>Candida albicans</i> (CECT 1394)	WDCM 00054; ATCC 10231; B 42904; CBS 6431; CCTM La 2785; CCY 29-3-106; DSMZ 1386; Emmons 3149; HAMB1 484; IFO 1594; IHEM 4263; JCM 2085; MUCL 30114; NCPF 3179; NCYC 1363; NIH 3147; UMIP 48.72; VTT C-85161	BACControl-5	990242	990257	990372
		BACControl-10	990243	990258	990373
		BACuanti	990244	990259	-
		BACuali	990166 Qualitative material		
<i>Clostridium sporogenes</i> (CECT 797)	ATCC 11437; CCRC 13856; CCTM La 3546; CCUG 31316; CIP 100651; IFO 14293; McClung 2006; NCAIM B.01416; NCIMB 12343	BACControl-5	990245	990260	-
		BACControl-10	990246	990261	-
		BACuanti	990247	990262	-
		BACuali	990214 Qualitative material		
			Part No.		

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Pharmacopoeia

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/0,1 mL)		
			LOW <100	HIGH >100	EXTRA-HIGH (10 ⁸ -10 ⁹ ufc)
<i>Clostridium sporogenes</i> (CECT 485)	WDCM 00008; ATCC 19404; CCM 4409; CCRC 11258; CCTM La 2951; CCUG 7489; CCUG 18371; CIP 79.3; CNCTC CI 66/79; DSMZ 1664; LMD 85.28; LMG 10143; NCFB 1710; NCIMB 532; Robertson SR5	BACControl-5	990287	990289	-
		BACControl-10	990288	990290	-
		BACuanti	990294	990295	-
		BACuali	990284 Qualitative material		
<i>Escherichia coli</i> (CECT 516)	WDCM 00012; ATCC 8739; CCRC 11634; CCTM La 2194; CCUG 10979; CIP 53.126; DSMZ 1576; Crooks; IFO 3972; IMET 11121; LMG 8063; NCFB 904; PCM 2561; VTT E-76039	BACControl-5	990224	990266	990370
		BACControl-10	990225	990267	990371
		BACuanti	990226	990268	-
		BACuali	990168 Qualitative material		
<i>Micrococcus luteus</i> (CECT 5863 T)	WDCM 00111; ATCC 4698; CCM 169; CECT 51; CECT 5053; CIP A270; DSM 20030; HAMB1 26; HAMB1 1399; IEGM 391; JCM 1464; LMG 4050; NBRC 3333; NCCB 78001; NCTC 2665; NCIB 9278; NRRL B-287; VKM B-1314	BACControl-5	990358	990360	-
		BACControl-10	990359	990361	-
		BACuanti	990365	990366	-
		BACuali	990355 Qualitative material		
<i>Pseudomonas aeruginosa</i> (CECT 111)	WDCM 00026; ATCC 9027; BUCSAV 278; CCM 1961; CCRC 11633; CCTM La 3362; CCUG 22801; CIP 82.118; CNCTC Ps 37/65; DSMZ 1128; DSMZ 1385; Hugh 813; IAM 10374; IFO 13275; IMET 10905; LMG 8029; NRRL B-800; PCM 2562; RH 813	BACControl-5	990236	990251	990376
		BACControl-10	990237	990252	990377
		BACuanti	990238	990253	-
		BACuali	990182 Qualitative material		
<i>Salmonella enterica subsp. enterica serovar Abony</i> (CECT 545)	WDCM 00029; NCTC 6017; CCTM La 2697; CCUG 21354; CIP 80.39; CNCTC SK 103; DSM 4224; PCM 2564; 74	BACControl-5	990230	990272	-
		BACControl-10	990231	990273	-
		BACuanti	990232	990274	-
		BACuali	990200 Qualitative material		
<i>Salmonella enterica subsp. enterica serovar Typhimurium</i> (CECT 4594)	WDCM 00031; ATCC 14028; CCRC 10747; CDC 6516-60; CIP 104115; NCIMB 13284	BACControl-5	990227	990269	-
		BACControl-10	990228	990270	-
		BACuanti	990229	990271	-
		BACuali	990193 Qualitative material		
<i>Staphylococcus aureus</i> (CECT 239)	WDCM 00032; ATCC 6538; CCRC 12154; CCTM La 2103; CCUG 10778; CIP 4.83; CNCTC Mau 29/58; DSMZ 799; FDA 209; FIRDI 941; HMGB B865; IAW 34; IFO 13276; IMET 10761; LMD 46.64; LMG 8064; NCTC 10788; VTT E-70045	BACControl-5	990233	990248	990374
		BACControl-10	990234	990249	990375
		BACuanti	990235	990250	-
		BACuali	990175 Qualitative material		
<i>Staphylococcus epidermidis</i> (CECT 232 T)	WDCM 00132; ATCC14990; AMIF strain Fussel; BTCC 2124; CCM 2124; CCRC 10785; CCTM La 2817; CCUG 18000; CIP 81.55; DSM 20044; GISK 202001; IAM 12013; JCM 2414; LMG 10474; NCAIM B.01066; NCIMB 12721; NCTC 11047; PCM 2118; Hugh RH 2466	BACControl-5	990330	990336	-
		BACControl-10	990331	990337	-
		BACuanti	990333	990339	-
		BACuali	990341 Qualitative material		
			Part No.		

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Pharmacopoeia (double quantification value)

Reference material quantified by means of 0.1 mL spread plate methods, in both general and specific culture medium (as indicated in European Pharmacopoeia, part 2.6.13), for each microorganism included in the table below.

The concentration is obtained after dissolving one tablet in 20mL of sterile water, following the User Guide that is provided with the product.

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL	CONCENTRATION (cfu/0,1 mL)
			LOW < 100
<i>Aspergillus brasiliensis - niger</i> (CECT 2574)	WDCM 00053; ATCC 16404; B 39906; B 42936; CABIM 149007; CBS 733.88; CCTM La 2212; DSMZ 1387; DSMZ 1988; FRR 6034; IFO 9455; IHEM 2311; IHEM 3766; IHEM 3794; IMI 149007; MUCL 29039; NCPF 2275; Ringel WLRI 034(120); UMIP 1431.8	BAControl-5	990690
		BAControl-10	990691
<i>Candida albicans</i> (CECT 1394)	WDCM 00054; ATCC 10231; B 42904; CBS 6431; CCTM La 2785; CCY 29-3-106; DSMZ 1386; Emmons 3149; HAMBI 484; IFO 1594; IHEM 4263; JCM 2085; MUCL 30114; NCPF 3179; NCYC 1363; NIH 3147; UMIP 48.72; VTT C-85161	BAControl-5	990702
		BAControl-10	990703
<i>Clostridium sporogenes</i> (CECT 797)	ATCC 11437; CCRC 13856; CCTM La 3546; CCUG 31316; CIP 100651; IFO 14293; McClung 2006; NCAIM B.01416; NCIMB 12343	BAControl-5	990704
		BAControl-10	990705
<i>Clostridium sporogenes</i> (CECT 485)	WDCM 00008; ATCC 19404; CCM 4409; CCRC 11258; CCTM La 2951; CCUG 7489; CCUG 18371; CIP 79.3; CNCTC CI 66/79; DSMZ 1664; LMD 85.28; LMG 10143; NCFB 1710; NCIMB 532; Robertson SR5	BAControl-5	990706
		BAControl-10	990707
<i>Escherichia coli</i> (CECT 516)	WDCM 00012; ATCC 8739; CCRC 11634; CCTM La 2194; CCUG 10979; CIP 53.126; DSMZ 1576; Crooks; IFO 3972; IMET 11121; LMG 8063; NCFB 904; PCM 2561; VTT E-76039	BAControl-5	990692
		BAControl-10	990693
<i>Pseudomonas aeruginosa</i> (CECT 111)	WDCM 00026; ATCC 9027; BUCSAV 278; CCM 1961; CCRC 11633; CCTM La 3362; CCUG 22801; CIP 82.118; CNCTC Ps 37/65; DSMZ 1128; DSMZ 1385; Hugh 813; IAM 10374; IFO 13275; IMET 10905; LMG 8029; NRRL B-800; PCM 2562; RH 813	BAControl-5	990700
		BAControl-10	990701
<i>Salmonella enterica subsp. enterica serovar Abony</i> (CECT 545)	WDCM 00029; NCTC 6017; CCTM La 2697; CCUG 21354; CIP 80.39; CNCTC SK 103; DSM 4224; PCM 2564; 74	BAControl-5	990696
		BAControl-10	990697
<i>Salmonella enterica subsp. enterica serovar Typhimurium</i> (CECT 4594)	WDCM 00031; ATCC 14028; CCRC 10747; CDC 6516-60; CIP 104115; NCIMB 13284	BAControl-5	990694
		BAControl-10	990695
<i>Staphylococcus aureus</i> (CECT 239)	WDCM 00032; ATCC 6538; CCRC 12154; CCTM La 2103; CCUG 10778; CIP 4.83; CNCTC Mau 29/58; DSMZ 799; FDA 209; IRDI 941; HMGB B865; IAW 34; IFO 13276; IMET 10761; LMD 46.64; LMG 8064; NCTC 10788; VTT E-70045	BAControl-5	990698
		BAControl-10	990699

Part No.

BACredi Accredited Reference Material

ielab is an Accredited Reference Material Producer, following ISO 17034 standard, for the BACredi materials specified in the table below. Due to its characteristics as accredited reference materials and all technical requirements that its production entails, we believe this product will be very useful for the quality controls in many laboratories.

The concentration is calculated dissolving one tablet in 20mL of sterile water, following the User Guide that is provided with the product.

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL ⁽¹⁾	CONCENTRATION (cfu/tab)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Citrobacter freundii</i> (CECT 4626)	WDCM 00077; NCTC 6272; NCIMB 8645; strain B	BACredi BC-5	990549	990552	990555
		BACredi BC-10	990550	990553	990556
		BACredi BQ	990551	990554	990557
		BACredi BL	990558 Qualitative material		
<i>Clostridium perfringens</i> (CECT 376 T)	WDCM 00007; ATCC 13124; ATCC 19408; CCM 5744; CCRC 10913; CCTM La 2957; CCUG 1795; CIP 103409; CN 1491; CNCTC CI 68/83; DSMZ 756; FIRDI 913; JCM 1290; LMD 89.165; LMG 11264; NCAIM B.01417; NCIMB 6125; NCTC 6125; Schmidt S 107	BACredi BC-5	990569	990572	990575
		BACredi BC-10	990570	990573	990576
		BACredi BQ	990571	990574	990577
		BACredi BL	990578 Qualitative material		
<i>Enterococcus faecium</i> (CECT 410 T)	WDCM 00010; ATCC 19434; CCRC 10067; CCTM La 2367; CCUG 542; CIP 103014; DSMZ 20477; GIFU 8355; JCM 5804; LMG 8149; LMG 11423; NCFB 942; NCIMB 11508; NRIC 1145; strain OJ; VTT E-93204	BACredi BC-5	990559	990562	990565
		BACredi BC-10	990560	990563	990566
		BACredi BQ	990561	990564	990567
		BACredi BL	990568 Qualitative material		
<i>Escherichia coli</i> (CECT 434)	WDCM 00013; ATCC 25922; CCM 3954; CCRC 14902; CCTM La 2184; CCUG 7736; CCUG 17620; CCUG 21456; CIP 76.24; CNCTC Ec 327/73; DSM 1103; FDA Seattle 1946; GISK 240533; HER 1176; IFO 15034; JCM 5491; LMG 8223; NCIMB 12210; PCM 2057	BACredi BC-5	990539	990542	990545
		BACredi BC-10	990540	990543	990546
		BACredi BQ	990541	990544	990547
		BACredi BL	990548 Qualitative material		
<i>Legionella pneumophila sg.1</i> Recommended in assays following the current Norm ISOISO (cellulose filters). (CECT 7109 T)	WDCM 00107; ATCC 33152; Philadelphia 1; CCUG 9568; DSM 7513; JCM 7571; NCTC 11192;	BACredi BC-5	990579	990582	990585
		BACredi BC-10	990580	990583	990586
		BACredi BQ	990581	990584	990587
		BACredi BL	990588 Qualitative material		
			Part No.		

BACredi Accredited Reference Material

SPECIES (Traceability)	OTHER CULTURE COLLECTIONS NUMBERS	TYPE OF MATERIAL ⁽¹⁾	CONCENTRATION (cfu/tab)		
			LOW <100	INTERMEDIATE 100-1.000	HIGH >1.000
<i>Leg.pneumophila</i> polycarbonate <i>sg.1</i> Recommended in assays following the current Norm ISO(polycarbonate/ nylon filters). (CECT 7109 T)	WDCM 00107; ATCC 33152; Philadelphia 1; CCUG 9568; DSM 7513; JCM 7571; NCTC 11192;	BACredi BC-5	-	-	990589
		BACredi BC-10	-	-	990590
		BACredi BQ	-	-	990591
		BACredi BL	-	-	-
			Part No.		

(1)

BACredi BC-5: non certified quantitative reference material.

BACredi BC-10: non certified quantitative reference material.

BACredi BQ: certified quantitative reference material.

BACredi BL: non certified qualitative reference material.

ielab has signed a Material Transfer Agreement (MTA) with the Spanish Type Culture Collection (Colección Española de Cultivos Tipo, CECT ®) under the modality 2*, by virtue of which its accredited products are traceable to CECT ® strains, as an internationally recognized Type Culture Collection.



*Modality 2: Transfers where a subsequent distribution is authorized by the recipient or buyer of the MGR (Microbial Genetic Resource), as long as the recipient user of the MGR has a demonstrated capacity to maintain the registry of the individuals or institutions to which the MGRs are transferred.

BAControl Selection

We present a product within our range of ready-to-use applications for quality control of microorganisms in order to meet water control laws, also for pharmaceutical, food and many other industries. BAControl Selection has been specially designed for Bioburden essays, Growth Promotion Tests and Nutritional Adequacy Tests.

After adding 20 mL of water, the tablet is dissolved in just 10 minutes, and then BAControl allows to obtain an exact concentration of the desired microorganism.

The tablets can be stored for long time, following the conditions indicated in the User Guide, until the expiry date, which is indicated in the Analysis Report that is supplied with the product.



Our available BAControl Selection are:

Growth Promotion Kit (5 units)

Concentration: <100 cfu/0.1 mL

Suggested applications:

- Growth Promotion
- Nutritional adequacy
- Microbial limits
- Microbial enumeration

Aspergillus brasiliensis traceable CECT 2574
Bacillus subtilis traceable CECT 356
Candida albicans traceable CECT 1394
Clostridium sporogenes traceable CECT 797
Pseudomonas aeruginosa traceable CECT 111

Part No. 990312

Growth Promotion Kit (10 units)

Concentration: <100 cfu/0.1 mL

Suggested applications:

- Growth Promotion
- Nutritional adequacy
- Microbial limits
- Microbial enumeration

Aspergillus brasiliensis traceable CECT 2574
Bacillus subtilis traceable CECT 356
Candida albicans traceable CECT 1394
Clostridium sporogenes traceable CECT 797
Pseudomonas aeruginosa traceable CECT 111

Part No. 990313

Challenge Test Kit (5 units)

Concentration: 10⁵-10⁶ cfu/0.1 mL

Suggested applications:

- Challenge Test
- Antimicrobial effectiveness
- Preservative efficacy

Aspergillus brasiliensis traceable CECT 2574
Candida albicans traceable CECT 1394
Escherichia coli traceable CECT 516
Pseudomonas aeruginosa traceable CECT 111
Staphylococcus aureus traceable CECT 239

Part No. 990314

Challenge Test Kit (10 units)

Concentration: 10⁵-10⁶ cfu/0.1 mL

Suggested applications:

- Challenge Test
- Antimicrobial effectiveness
- Preservative efficacy

Aspergillus brasiliensis traceable CECT 2574
Candida albicans traceable CECT 1394
Escherichia coli traceable CECT 516
Pseudomonas aeruginosa traceable CECT 111
Staphylococcus aureus traceable CECT 239

Part No. 990340

For more information about these strains, please see the pages 19 and 20 of this catalogue

Water Analysis Kit (low concentration)

BAControl-10 with two tablets of each species at a concentration of <100 cfu/tablet.

Citrobacter freundii traceable CECT 4626
Clostridium perfringens traceable CECT 376 T
Enterococcus faecium traceable CECT 410 T
Escherichia coli traceable CECT 434 (4 pastillas)

Part No. 990283

Water Analysis Kit (high concentration)

BAControl-10 with two tablets of each species at a concentration of >1,000 cfu/tablet.

Citrobacter freundii traceable CECT 4626
Clostridium perfringens traceable CECT 376 T
Enterococcus faecium traceable CECT 410 T
Escherichia coli traceable CECT 434 (4 pastillas)

Part No. 990327

For more information about these strains, please see the pages 12, 13 and 14 of this catalogue

Environmental isolates

We offer a wide range of isolates, identified strains and isolated from environmental samples.

They are presented in a safe, user-friendly and easy to store container, to be used for the validation of different essay methods.

Expiry: 12 months.

Microorganism	Part No.
<i>Escherichia coli</i>	990275
<i>Enterococcus faecium</i>	990276
<i>Salmonella</i> spp.	990277
<i>Legionella pneumophila</i>	990278
<i>Legionella</i> spp.	990279
<i>Clostridium perfringens</i>	990280
<i>Staphylococcus aureus</i>	990281
Other species	990282

Minimum order: 5 units. Please request us about other available species, either Type Culture Collection strains or also native strains exclusive of a working place which have to be isolated and produced as quantitative or qualitative reference material to be used in quality controls of the production processes that occur in that place.

Please contact our Sales Department at:

comercial@ielab.es.

Native isolates

ielab offers the possibility of having a service for manufacturing reference materials from isolated strains obtained in own customer's facilities for several sectors such as the pharmaceutical sector, the food and beverage sector, the parapharmaceutical sector, etc.

For more information about it, you can contact us at the e-mail: comercial@ielab.es or by phone + 34 966 10 55 01.

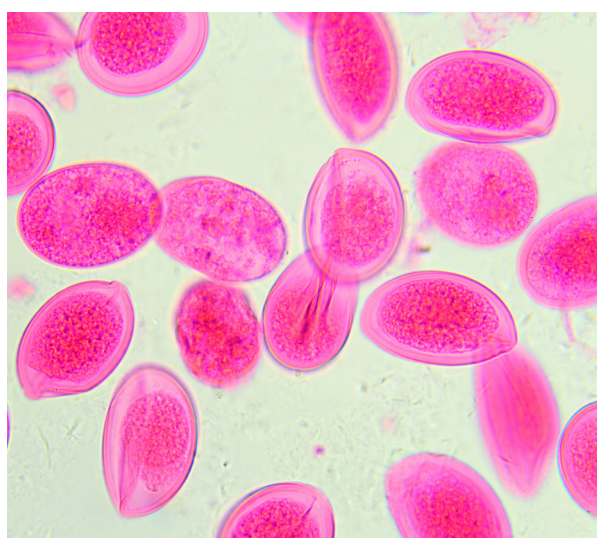
Helminths

This quantitative material is provided in vials containing 150 eggs/vial. It has a shelf life of 12 months from the date of preparation.

Microorganism	Part No.
<i>Fasciola hepatica</i>	990149
<i>Fasciola gigantica</i>	990150
<i>Ascaris lumbricoides</i>	990151
<i>Taenia solium</i>	990152
<i>Trichuris</i> sp.	990153
<i>Schistosoma</i> sp.	990154
<i>Diphyllobothrium</i> sp.	990155

Additional material

Name	Part No.
BACwater: box with 10 vials containing sterile water	990156
BACglass: box with 10 sterile vials	990157



Materials for molecular biology (PCR and DNA)

BAControl-PCR

This is a quantitative material specially designed for PCR, in which each tablet contains a specific number of inactivated cells and the number of genomic units (g.u.) is indicated.

This allows a control over the whole analytical process, from the initial sample concentration to the final analysis.

It has a shelf life of 12 months from release date and is provided in a sterile dispenser of 5 tablets.

The currently available microorganisms are:

Legionella pneumophila

Specie (Traceability)	Concentration (g.u./tablet)	Part No.
<i>Legionella pneumophila</i> (CECT 7109 T)	low (>4 y <6 log)	990069
<i>Legionella pneumophila</i> (CECT 7109 T)	high (>6 y <8 log)	990083

BAControl-DNA

This is a quantitative material which is presented in freeze-dried format in a vial, being certified the quantity of DNA in µg/vial.

Designed for validation and quality control of the PCR amplification step.

It has a shelf life of 9 months from release date and it is provided in individual vials, including a vial with PCR-grade distilled water.

The currently available microorganisms are:

Legionella pneumophila

Specie (Traceability)	Part No.
<i>Legionella pneumophila</i> (CECT 7109 T)	990060

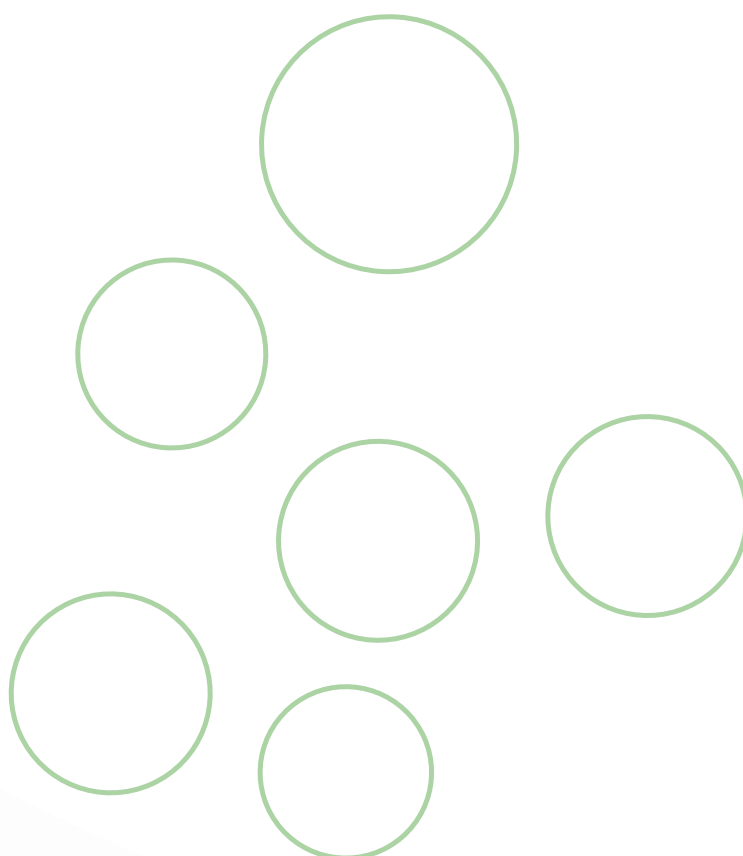
Escherichia coli

Specie (Traceability)	Part No.
<i>Escherichia coli</i> (CECT 434)	990123

Together with the species available from stock, there is the possibility of preparing reference material for others.

Currently, **ielab** works with several distributors around the world. You can check them in our web: www.ielab.es and review the geographical areas where they are present.

If you are interested in ielab products and belong to these geographical areas you should contact your local distributor. For the rest of the areas, you could contact us by our e-mail comercial@ielab.es, or by phone + 34 966 10 55 01.



TERMS AND CONDITIONS

The ielab reference materials are of an exclusively scientific nature and are used at the laboratory level. ielab is not responsible for any other purpose for which they may be employed. For more information, see the ielab full document of terms and conditions.

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part no. batch (*) units

part no. batch (*) units

(*) only in case of physical-chemical material.

Information about BACredi Accredited Reference Material can be found in page 18 of this catalogue.

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03114 Alicante (Spain)**

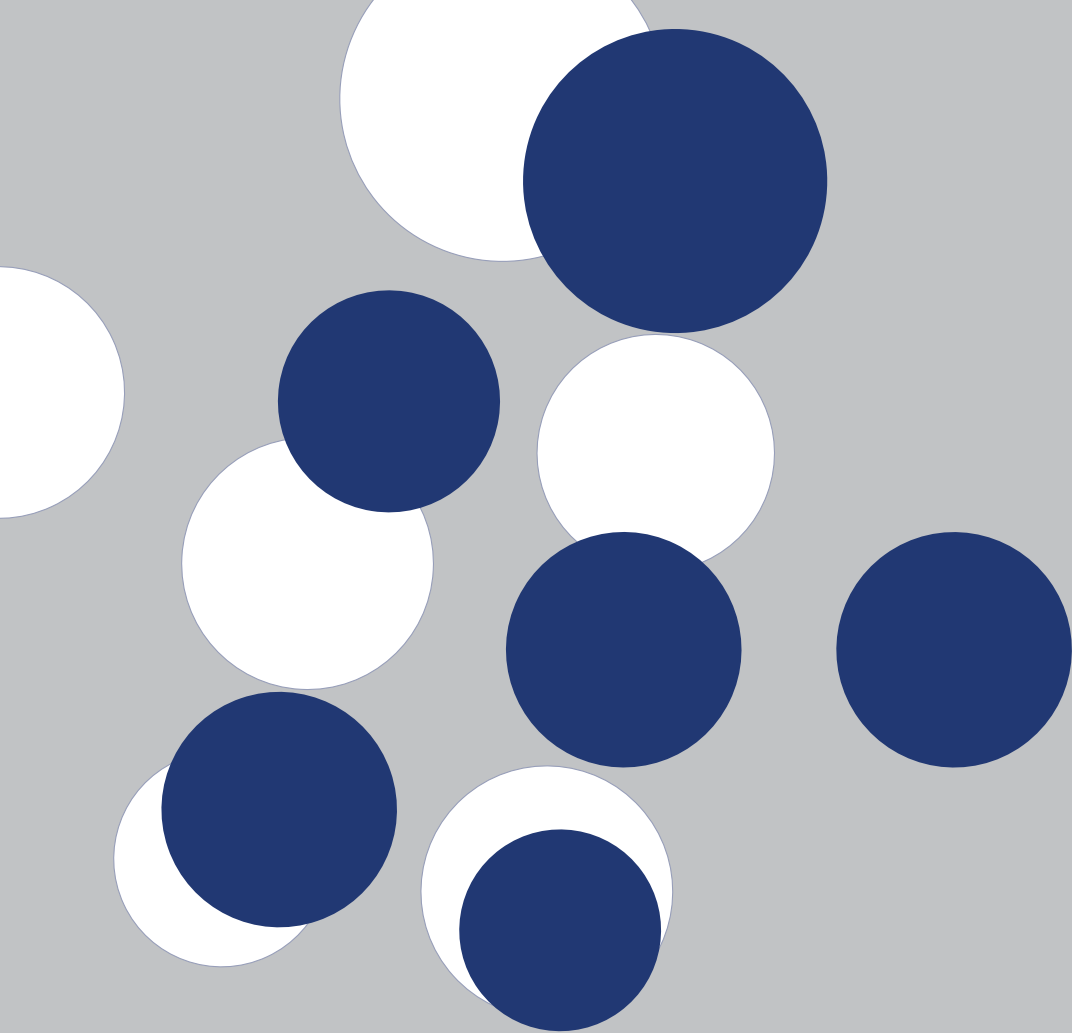
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TERMS AND CONDITIONS

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NOTES

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ielab

Making quality control easy

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