



API & ID 32 IDENTIFICATION DATABASES |



BIOMÉRIEUX

PIONEERING DIAGNOSTICS



INTRODUCTION

The API[®], ID 32 and rapid ID 32 database update takes into account:

- the evolution of international taxonomy
- the description of the new bacterial species,
- newly acquired bacteriology data (new profiles for bacterial strains which have an impact on performance data)

As a result of the update, the APIWEB™ software version has changed from version 1.2.1 to version 1.3.0

The API and ID 32 databases have again been updated

Twenty-two of the twenty-three identification databases have been revised, taking account the biochemical profiles of over 56,277 strains. Today, 697 species of bacteria and yeasts can be identified, including 14 new species and 50 that have been assigned new names.

The changes made can be broken down as follows:

A number of new species have been added to the database (including both entirely new species and others added on the basis of new results).

Certain bacterial species have been deleted due to more stringent criteria. Certain rare species which are not sufficiently studied have been removed from the database.

The names of certain species have been changed to follow modifications in the bacterial taxonomy as officially described in the International Journal of Systematic and Evolutionary Microbiology.

Notes have been revised to reflect the changes in names and the species added and deleted.

Percentages and performances have been altered to reflect variations observed in the profiles analyzed as the database was revised.

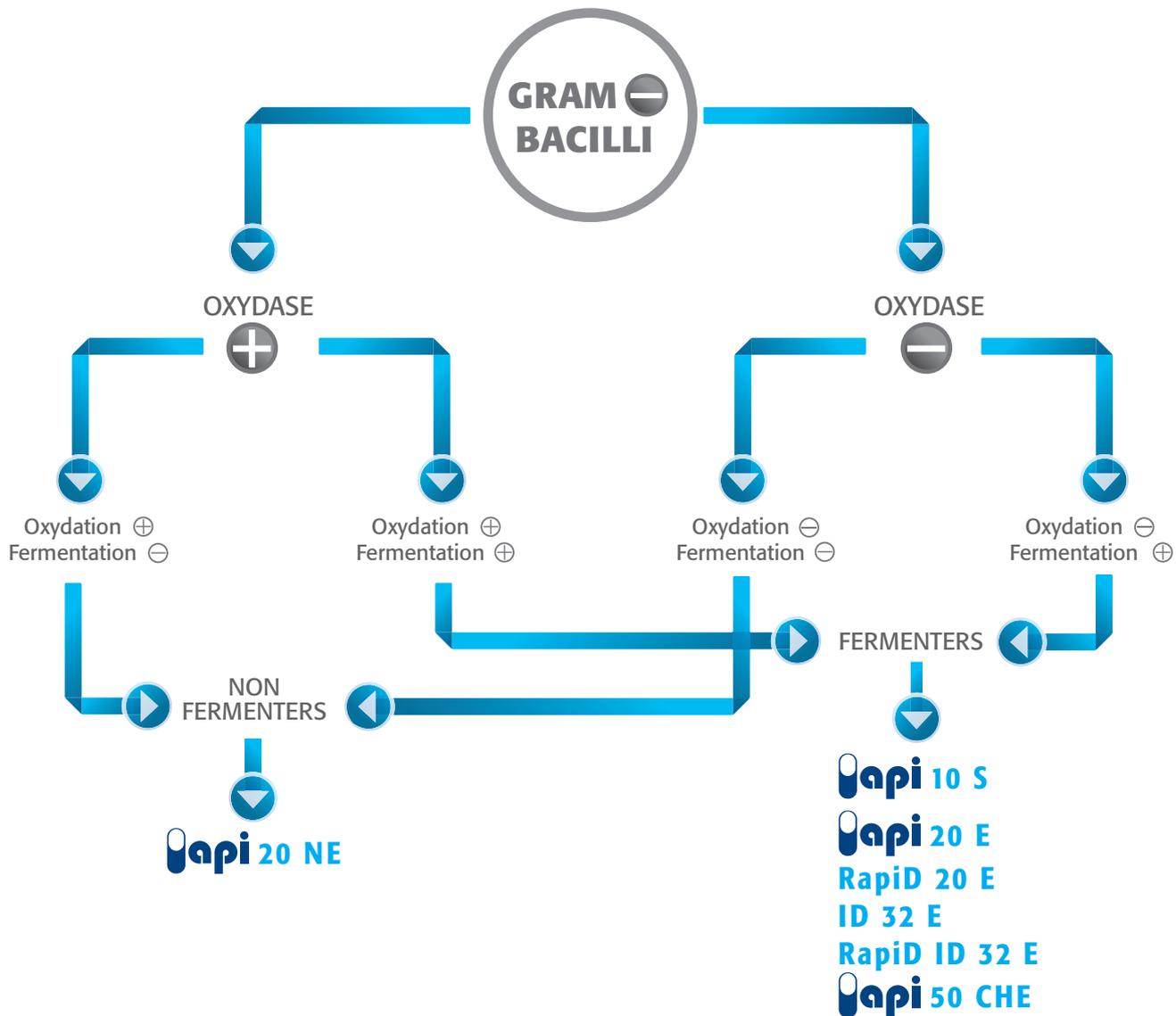
Additional tests were modified to reflect the new reference information available.

WHAT'S CHANGED IN THE DATABASES?

Database	Version number		Changes to thesaurus		Changes to database	
	old	new	Taxons	Notes	Identification	Additional tests
API® 20 E	v 4.1	v 5.0	X	X	X	X
RapiD 20 E™	v 3.1	v 3.2	X	-	-	-
API® 10 S	v 3.1	v 4.0	X	X	X	-
API® 20 NE	v 7.0	v 8.0	X	X	X	-
API® STAPH	v 4.1	v 5.0	-	-	X	-
API® 20 STREP	v 7.0	v 8.0	X	X	X	X
API® 20 C AUX	v 4.0	v 5.0	X	X	X	-
API® CANDIDA	v 2.1	v 2.2	X	X	-	-
API® 20 A	v 4.0	v 5.0	X	X	X	X
API® CORYNE	v 3.0	v 4.0	X	X	X	-
API® CAMPY	v 2.1	v 3.0	X	-	X	-
API® LISTERIA	v 1.2	v 2.0	-	X	X	-
API® NH	v 3.0	v 4.0	X	X	X	-
API® 50 CHB	v 4.0	v 4.1	X	-	-	-
API® 50 CHE	v 3.1	v 3.2	X	-	-	-
API® 50 CHL	v 5.1	v 5.2	X	-	-	-
ID 32 E	v 3.0	v 4.0	X	-	X	X
rapid ID 32 E	v 3.1	v 4.0	X	-	X	X
ID 32 STAPH	v 2.1	v 3.0	X	X	X	X
rapid ID 32 STREP	v 3.0	v 4.0	X	X	X	X
ID 32 C	v 3.0	v 4.0	X	X	X	X
rapid ID 32 A	v 3.2	v 3.3	X	-	-	-

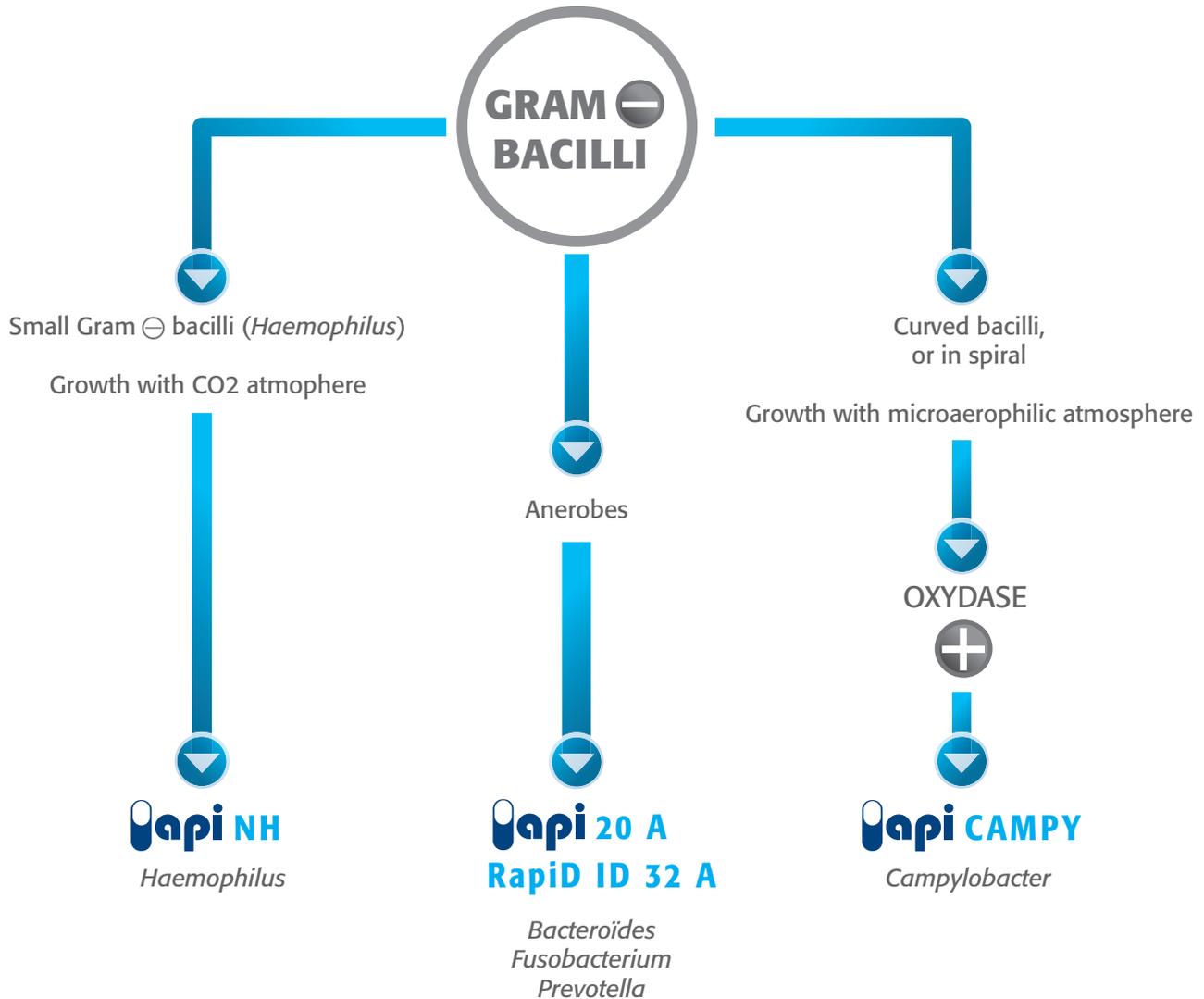
ORIENTATION TESTS

GRAM[⊖] BACILLI



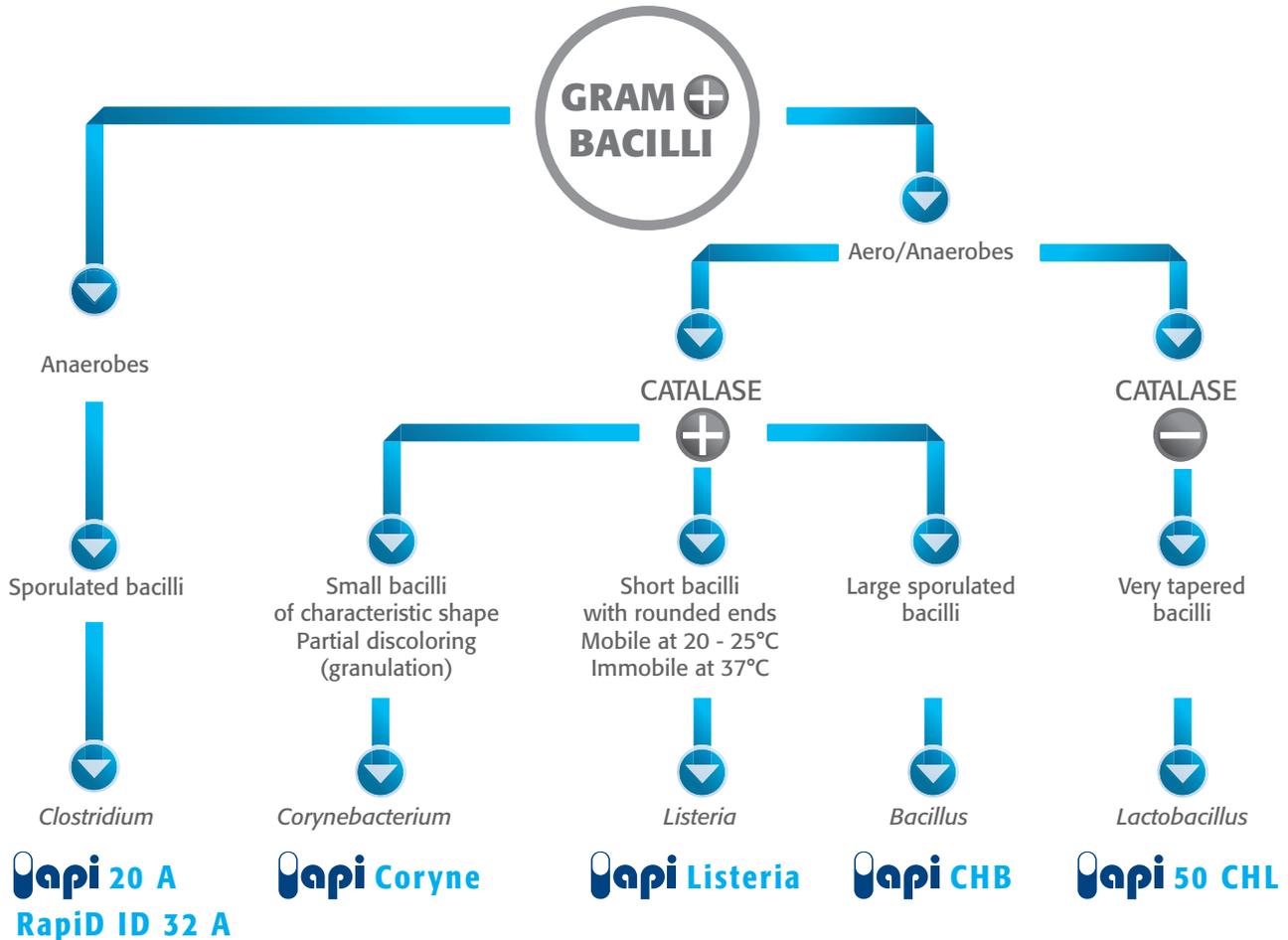
ORIENTATION TESTS

OTHER GRAM⁻ BACILLI



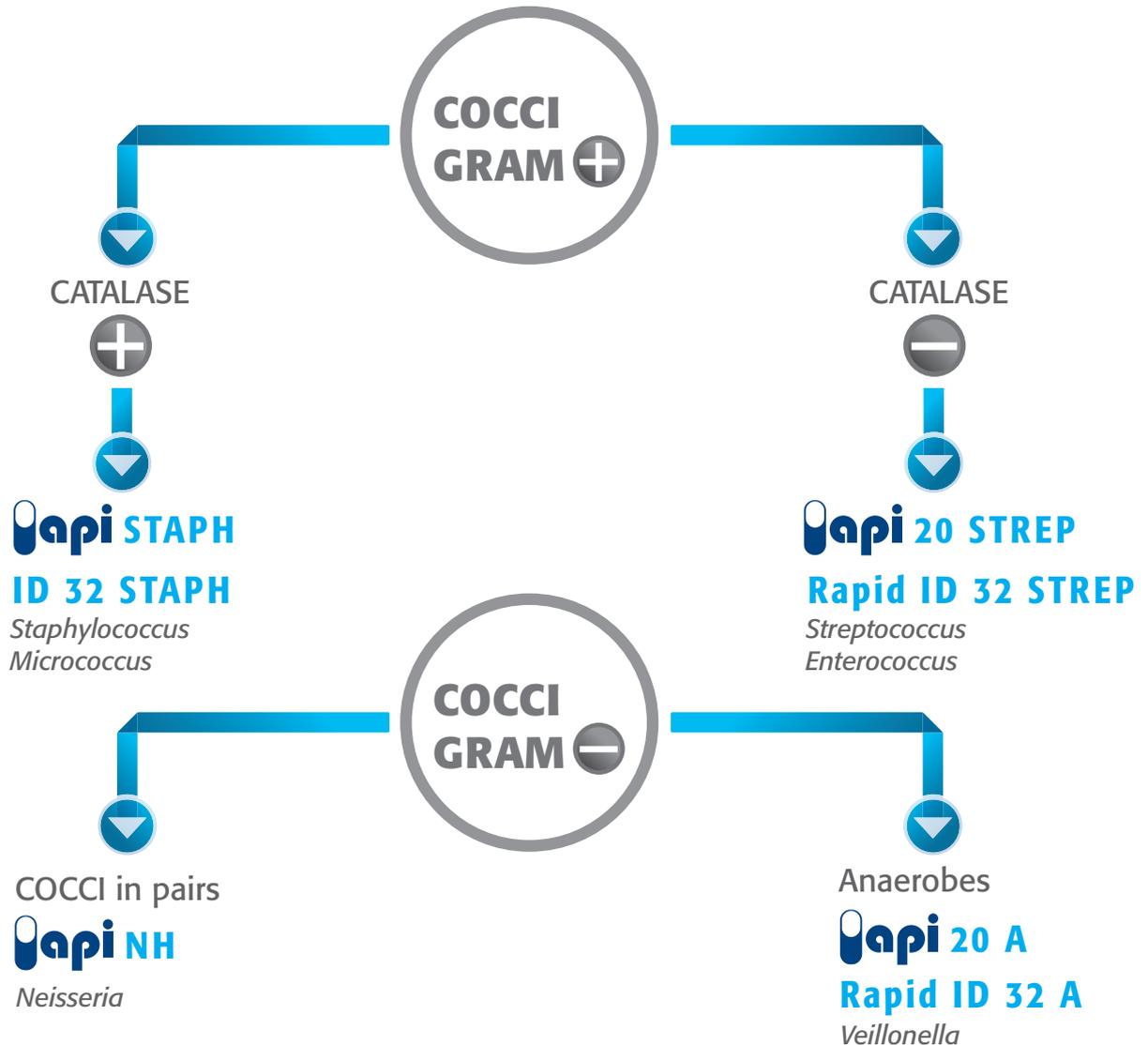
ORIENTATION TESTS

GRAM⁺ BACILLI



ORIENTATION TESTS

COCCI



ORIENTATION TESTS

YEASTS



Assimilation tests

Sugar acidification or
enzymatic tests

api 20C AUX
ID 32 C

Candida
Cryptococcus
Geotrichum
Kloeckera
Pichia
Rhodotorula
Trichosporon

api CANDIDA

Candida
Cryptococcus
Saccharomyces
Trichosporon

SPECIES IDENTIFIABLE BY THE VARIOUS IDENTIFICATION SYSTEMS

API® 20 E	Gram-negative bacilli
API® 10 S	Gram-negative bacilli
Rapid 20E™	<i>Enterobacteriaceae</i>
API® 20 NE	Gram-negative non- <i>Enterobacteriaceae</i>
API® Staph	Staphylococci
API® 20 Strep	Streptococci
API® Candida	Yeasts
API® 20 C AUX	Yeasts
API® 20 A	Anaerobes
API® Coryne	Corynebacteria
API® Campy	<i>Campylobacter</i>
API® Listeria	<i>Listeria</i>
API® NH	<i>Neisseria, Haemophilus</i>
API® 50 CHE	<i>Enterobacteriaceae</i>
AP® I 50 CHL	Lactic bacteria
API® 50 CHB	<i>Bacillus</i>
ID 32 E	Gram-negative bacilli
Rapid ID 32 E	<i>Enterobacteriaceae</i>
ID 32 GN	Gram-negative bacilli
ID 32 STAPH	Staphylococci
Rapid ID 32 STREP	Streptococci
ID 32 C	Yeasts
Rapid ID 32 A	Anaerobes

- Species present in database
- Species identifiable with additional tests
- Changed taxon
- New species

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A
<i>Abiotrophia defectiva</i>				●			●																		●	
<i>Achromobacter denitrificans</i>				●																			●			
<i>Achromobacter xylosoxidans</i>				●																			●			
<i>Alcaligenes denitrificans</i>				●																			●			
<i>Alcaligenes xylosoxidans</i>				●																			●			
<i>Acinetobacter/Moraxella spp</i>																					●					
<i>Acinetobacter/Pseudomonas spp</i>			●																		●	●				
<i>Acinetobacter baumannii</i>	●	●		●																	●	●				
<i>Acinetobacter baumannii/calcoaceticus</i>	●	●		●																	●	●				
<i>Acinetobacter calcoaceticus</i>	●	●		●																	●	●				
<i>Acinetobacter haemolyticus</i>				●																			●			
<i>Acinetobacter johnsonii</i>				●																			●			
<i>Acinetobacter junii</i>				●																			●			
<i>Acinetobacter junii/johnsonii</i>				●																			●			
<i>Acinetobacter lwoffii</i>				●																			●			
<i>Acinetobacter radioresistens</i>				●																						
<i>Acinetobacter spp</i>			●																		●					
<i>Actinobacillus pleuropneumoniae</i>															●											
<i>Actinomyces israelii</i>											●															●
<i>Actinomyces meyeri</i>											●															●
<i>Actinomyces meyeri/odontolyticus</i>											●															●
<i>Actinomyces naeslundii</i>											●															●
<i>Actinomyces neuii ssp anitratus</i>											●		●													●
<i>Actinomyces neuii ssp neuii</i>											●		●													●
<i>Actinomyces odontolyticus</i>											●															●
<i>Actinomyces radingae</i>											●		●													●
<i>Actinomyces turicensis</i>											●		●													●
<i>Actinomyces viscosus</i>											●		●													●
<i>Aeromonas caviae</i>	●			●												●					●	●	●			
<i>Aeromonas hydrophila/caviae</i>				●																	●	●	●			
<i>Aeromonas hydrophila</i>	●	●	●	●												●					●	●	●			
<i>Aeromonas hydrophila/caviae/sobria</i>	●			●																	●	●	●			
<i>Aeromonas salmonicida ssp achromogenes</i>				●																	●	●	●			
<i>Aeromonas salmonicida masoucida/achromogenes</i>				●																	●	●	●			
<i>Aeromonas salmonicida ssp masoucida</i>				●																	●	●	●			
<i>Aeromonas salmonicida ssp salmonicida</i>	●			●												●					●	●	●			
<i>Aeromonas sobria</i>	●	●		●												●					●	●	●			
<i>Aeromonas sobria</i>	●	●		●												●					●	●	●			
<i>Aerococcus urinae</i>							●																		●	
<i>Aerococcus viridans</i>							●										●						●	●		
<i>Aggregatibacter actinomycetemcomitans</i>															●											
<i>Aggregatibacter aphrophilus</i>															●											
<i>Alcaligenes faecalis</i>				●																			●			
<i>Alcaligenes spp</i>	●																				●					
<i>Alloioicoccus otitis</i>							●																		●	
<i>Anaerobiospirillum succiniciproducens</i>																										●
<i>Anaerococcus prevotii</i>											●															●
<i>Aneurinibacillus aneurinilyticus</i>																		●								
<i>Arcanobacterium haemolyticum</i>												●														
<i>Arcobacter cryaerophilus</i>													●													
<i>Arthrobacter spp</i>												●														
<i>Avibacterium paragallinarum</i>															●											
<i>Bacillus amyloliquefaciens</i>																		●								
<i>Bacillus anthracis</i>																		●								

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Bacillus badius</i>																		●									
<i>Bacillus cereus</i>																		●									
<i>Bacillus circulans</i>																		●									
<i>Bacillus coagulans</i>																		●									
<i>Bacillus firmus</i>																		●									
<i>Bacillus lentus</i>																		●									
<i>Bacillus licheniformis</i>																		●									
<i>Bacillus megaterium</i>																		●									
<i>Bacillus mycoides</i>																		●									
<i>Bacillus pumilus</i>																		●									
<i>Bacillus smithii</i>																		●									
<i>Bacillus subtilis</i>																		●									
<i>Bacillus subtilis/amyloliquefaciens</i>																		●									
<i>Bacillus thuringiensis</i>																		●									
<i>Bacteroides caccae</i>											●															●	
<i>Bacteroides eggerthii</i>											●															●	
<i>Bacteroides fragilis</i>											●															●	
<i>Bacteroides ovatus</i>											●															●	
<i>Bacteroides ovatus/thetaiotaomicron</i>											●															●	
<i>Bacteroides stercoris/eggerthii</i>											●															●	
<i>Bacteroides stercoris</i>											●															●	
<i>Bacteroides thetaiotaomicron</i>											●															●	
<i>Bacteroides uniformis</i>											●															●	
<i>Bacteroides vulgatus</i>											●															●	
<i>Bacillus non reactive</i>																		●									
<i>Bergeyella zoohelcum</i>				●															●		●						
<i>Bibersteinia trehalosi</i>	●			●																	●						
<i>Bifidobacterium adolescentis</i>											●															●	
<i>Bifidobacterium bifidum</i>											●															●	
<i>Bifidobacterium breve</i>											●															●	
<i>Bifidobacterium dentium</i>											●															●	
<i>Bifidobacterium longum</i>											●															●	
<i>Bifidobacterium spp</i>											●															●	
<i>Bordetella/Alcaligenes/Moraxella spp</i>	●																										
<i>Bordetella avium</i>				●																							
<i>Bordetella bronchiseptica</i>				●																	●		●				
<i>Bordetella spp</i>	●																										
<i>Brevundimonas diminuta/Oligella urethralis</i>				●																							
<i>Brevundimonas diminuta</i>				●																						●	
<i>Brevundimonas vesicularis</i>				●																						●	
<i>Brevibacillus agri</i>																			●								
<i>Brevibacillus borstelensis</i>																			●								
<i>Brevibacillus brevis</i>																			●								
<i>Brevibacillus centrosporus</i>																			●								
<i>Brevibacillus choshinensis</i>																			●								
<i>Brevibacillus laterosporus</i>																			●								
<i>Brevibacillus non reactive</i>																			●								
<i>Brevibacterium casei</i>												●															
<i>Brevibacterium epidermidis</i>												●															
<i>Brevibacterium spp</i>												●															
<i>Brochothrix thermosphacta</i>																		●									

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<i>Brucella spp</i>	●																				●	●	●			
<i>Budvicia aquatica</i>																					●	●	●			
<i>Burkholderia cepacia</i>	●		●	●																						
<i>Burkholderia gladioli</i>				●																						
<i>Burkholderia pseudomallei</i>				●																			●			
<i>Buttiauxella agrestis</i>	●		●													●					●	●	●			
<i>Candida albicans</i>									●	●																●
<i>Candida boidinii</i>										●																●
<i>Candida catenulata</i>																										●
<i>Candida ciferrii</i>										●																●
<i>Candida colliculosa</i>										●																●
<i>Candida dattila</i>																										●
<i>Candida dubliniensis</i>										●																●
<i>Candida famata</i>									●	●																●
<i>Candida glabrata</i>									●	●																●
<i>Candida globosa</i>																										●
<i>Candida guilliermondii</i>									●	●																●
<i>Candida hellenica</i>																										●
<i>Candida holmii</i>																										●
<i>Candida inconspicua/norvegensis</i>																										●
<i>Candida inconspicua</i>									●	●																●
<i>Candida intermedia</i>																										●
<i>Candida kefir</i>									●	●																●
<i>Candida krusei</i>									●	●																●
<i>Candida krusei/inconspicua</i>										●																●
<i>Candida lambica</i>										●																●
<i>Candida lipolytica</i>										●																●
<i>Candida lusitanae</i>									●	●																●
<i>Candida magnoliae</i>										●																●
<i>Candida melibiosica</i>																										●
<i>Candida membranifaciens</i>																										●
<i>Candida norvegensis</i>									●	●																●
<i>Candida norvegica</i>																										●
<i>Candida parapsilosis</i>									●	●																●
<i>Candida pelliculosa</i>										●																●
<i>Candida pulcherrima</i>																										●
<i>Candida rugosa</i>										●																●
<i>Candida sake</i>																										●
<i>Candida silvicola</i>																										●
<i>Candida spherica</i>										●																●
<i>Candida thermophila</i>										●																●
<i>Candida tropicalis</i>									●	●																●
<i>Candida utilis</i>										●																●
<i>Candida valida</i>																										●
<i>Candida zeylanoides</i>										●																●
<i>Campylobacter coli</i>															●											●
<i>Campylobacter fetus ssp venerealis</i>															●											●
<i>Campylobacter fetus ssp fetus</i>															●											●
<i>Campylobacter hyointestinalis</i>															●											●
<i>Campylobacter jejuni ssp doylei</i>															●											●
<i>Campylobacter jejuni ssp jejuni</i>															●											●

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Campylobacter lari</i>													●														
<i>Campylobacter lari</i> UPTC													●														
<i>Campylobacter mucosalis</i>													●														
<i>Campylobacter sputorum ssp bubulus</i>													●														
<i>Campylobacter sputorum</i> bv Fecalis													●														
<i>Campylobacter sputorum</i> bv Sputorum													●														
<i>Campylobacter upsaliensis</i>													●														
<i>Campylobacter ureolyticus</i>											●																●
<i>Capnocytophaga gingivalis</i>																											●
<i>Capnocytophaga ochracea</i>											●																●
<i>Capnocytophaga sputigena</i>																											●
<i>Capnocytophaga</i> spp											●																●
<i>Carnobacterium divergens</i>																		●									
<i>Carnobacterium maltaromaticum</i>																		●									
<i>Cedecea davisae</i>	●		●													●					●	●	●				
<i>Cedecea lapagei</i>	●		●																		●	●	●				
<i>Cedecea lapagei/neteri</i>																●											
<i>Cedecea neteri</i>			●																		●	●	●				
<i>Cedecea</i> spp			●																				●				
<i>Cellulomonas</i> spp/ <i>Microbacterium</i> spp												●															
<i>Cellulomonas</i> spp												●															
<i>Cellulosimicrobium cellulans</i>												●															
<i>Chromobacterium violaceum</i>	●			●																			●				
<i>Chryseobacterium indologenes</i>	●	●		●																	●		●				
<i>Citrobacter amalonaticus</i> /farmeri				●																	●	●	●				
<i>Citrobacter amalonaticus</i>	●	●	●													●					●	●	●				
<i>Citrobacter braakii</i>	●	●														●					●	●	●				
<i>Citrobacter farmeri</i>	●	●	●													●					●	●	●				
<i>Citrobacter freundii</i>	●	●														●					●	●	●				
<i>Citrobacter freundii</i> group				●																		●	●				
<i>Citrobacter koseri</i> /farmeri	●																					●	●				
<i>Citrobacter koseri</i>	●	●	●													●					●	●	●				
<i>Citrobacter koseri</i> /amalonaticus	●	●																				●	●	●			
<i>Citrobacter sedlakii</i>	●																				●						
<i>Citrobacter youngae</i>	●															●					●						
<i>Clostridium acetobutylicum</i>																											●
<i>Clostridium baratii</i>												●															●
<i>Clostridium beijerinckii</i> /butyricum												●															●
<i>Clostridium beijerinckii</i>												●															●
<i>Clostridium bifementans</i>												●															●
<i>Clostridium botulinum</i>												●															●
<i>Clostridium botulinum</i> /sporogenes												●															●
<i>Clostridium butyricum</i>												●															●
<i>Clostridium cadaveris</i>												●															●
<i>Clostridium clostridioforme</i>												●															●
<i>Clostridium difficile</i>												●															●
<i>Clostridium fallax</i>												●															●
<i>Clostridium glycolicum</i>																											●
<i>Clostridium histolyticum</i>												●															●
<i>Clostridium innocuum</i>												●															●
<i>Clostridium limosum</i>												●															●

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	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Clostridium paraputrificum</i>												●														●	
<i>Clostridium perfringens</i>												●															●
<i>Clostridium ramosum</i>												●															●
<i>Clostridium septicum</i>												●															●
<i>Clostridium sordellii</i>												●															●
<i>Clostridium sporogenes</i>												●															●
<i>Clostridium subterminale</i>												●															●
<i>Clostridium tertium</i>												●															●
<i>Clostridium tetani</i>												●															●
<i>Clostridium tyrobutyricum</i>												●															●
<i>Clostridium spp</i>												●															●
<i>Collinsella aerofaciens</i>												●															
<i>Comamonas testosteroni/Pseudomonas alcaligenes</i>				●																							
<i>Comamonas testosteroni</i>				●																					●		
<i>Comamonas spp</i>																					●						
<i>Corynebacterium accolens</i>													●									●					
<i>Corynebacterium afermentans/coyleae</i>													●														
<i>Corynebacterium afermentans</i>													●														
<i>Corynebacterium amycolatum</i>													●														
<i>Corynebacterium argentoratense</i>													●														
<i>Corynebacterium auris</i>													●														
<i>Corynebacterium auris/Turicella otitidis</i>													●														
<i>Corynebacterium bovis</i>													●														
<i>Corynebacterium coyleae</i>													●														
<i>Corynebacterium cystitidis</i>													●														
<i>Corynebacterium diphtheriae biotype belfanti</i>													●														
<i>Corynebacterium diphtheriae biotype gravis</i>													●														
<i>Corynebacterium diphtheriae biotype intermedius</i>													●														
<i>Corynebacterium diphtheriae biotype mitis/belfanti</i>													●														
<i>Corynebacterium diphtheriae mitis</i>													●														
<i>Corynebacterium glucuronolyticum</i>													●														
<i>Corynebacterium group F-1</i>													●														
<i>Corynebacterium group G</i>													●														
<i>Corynebacterium jeikeium</i>													●														
<i>Corynebacterium kutscheri</i>													●														
<i>Corynebacterium macginleyi</i>													●														
<i>Corynebacterium minutissimum</i>													●														
<i>Corynebacterium pilosum</i>													●														
<i>Corynebacterium propinquum</i>													●														
<i>Corynebacterium pseudodiphtheriticum</i>													●														
<i>Corynebacterium pseudotuberculosis</i>													●														
<i>Corynebacterium renale</i>													●														
<i>Corynebacterium renale group</i>													●														
<i>Corynebacterium seminale (C.glucuronolyticum)</i>													●														
<i>Corynebacterium striatum/amycolatum</i>													●														
<i>Corynebacterium striatum</i>													●														
<i>Corynebacterium ulcerans</i>													●														
<i>Corynebacterium urealyticum</i>													●														
<i>Cronobacter dublinensis ssp dublinensis</i>	●																					●	●				
<i>Cronobacter dublinensis ssp lactaridi</i>																						●	●				
<i>Cronobacter dublinensis ssp lausannensis</i>	●																					●	●				

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 CN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Cronobacter dublinensis</i>	●																			●	●						
<i>Cronobacter muyjensii</i>	●																				●	●					
<i>Cronobacter malonaticus</i>	●																				●	●					
<i>Cronobacter sakazakii</i>	●	●	●																		●	●					
<i>Cronobacter sakazakii</i> group	●																					●					
<i>Cronobacter turicensis</i>	●																				●	●					
<i>Cronobacter</i> spp	●															●							●				
<i>Cryptococcus albidus</i>										●																●	
<i>Cryptococcus curvatus</i>																										●	
<i>Cryptococcus humicola</i>										●																●	
<i>Cryptococcus laurentii</i>										●																●	
<i>Cryptococcus neoformans</i>									●	●																●	
<i>Cryptococcus terreus</i>										●																●	
<i>Cryptococcus uniguttulatus</i>										●																●	
<i>Cupriavidus pauculus</i>																							●				
<i>Delftia acidovorans</i>				●																			●				
<i>Dermacoccus nishinomiyaensis</i>				●			●																	●			
<i>Dermabacter hominis</i>												●															
<i>Dietzia</i> spp												●															
<i>Edwardsiella hoshinae</i>	●		●													●					●	●	●				
<i>Edwardsiella tarda</i>	●	●	●													●					●	●	●				
<i>Eggerthella lenta</i>											●																●
<i>Eikenella corrodens</i>	●			●																							
<i>Elizabethkingia meningoseptica</i>	●	●		●																	●		●				
<i>Empedobacter brevis</i>				●																			●				
<i>Enterobacter aerogenes</i>	●	●	●													●					●	●	●				
<i>Enterobacter amnigenus</i>	●	●														●					●	●	●				
<i>Enterobacter asburiae</i>	●		●													●					●	●	●				
<i>Enterobacter cancerogenus</i>	●		●													●					●	●	●				
<i>Enterobacter doacae</i>	●	●	●													●					●	●	●				
<i>Enterobacter gergoviae</i>	●		●													●					●	●	●				
<i>Enterobacter</i> spp/ <i>E.coli</i> / <i>Shigella sonnei</i>		●																									
<i>Enterococcus avium</i>									●																	●	
<i>Enterococcus casseliflavus</i>								●																		●	
<i>Enterococcus cecorum</i>																										●	
<i>Enterococcus durans</i>								●																		●	
<i>Enterococcus faecalis</i>								●																		●	
<i>Enterococcus faecium</i>								●																		●	
<i>Enterococcus gallinarum</i>								●																		●	
<i>Enterococcus hirae</i>																										●	
<i>Enterococcus saccharolyticus</i>																										●	
<i>Enterobacter</i> spp		●																									
<i>Erwinia</i> spp	●															●											
<i>Erysipelothrix rhusiopathiae</i>												●													●		
<i>Escherichia coli</i>	●	●	●													●					●	●	●				
<i>Escherichia fergusonii</i>	●		●													●					●	●	●				
<i>Escherichia hermannii</i>	●		●													●					●	●	●				
<i>Escherichia vulneris</i>	●		●													●					●	●	●				
<i>Eubacterium limosum</i>											●																●
<i>Ewingella americana</i>	●		●													●					●	●	●				
<i>Fingoldia magna</i>											●																●

- Species present in database
- Species identifiable with additional tests
- Changed taxon
- New species

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE		API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Fusobacterium mortiferum</i>										●															●	
<i>Fusobacterium necrophorum/nucleatum</i>										●																●
<i>Fusobacterium necrophorum ssp funduliforme</i>										●																●
<i>Fusobacterium necrophorum ssp necrophorum</i>										●																●
<i>Fusobacterium necrogenes</i>																										●
<i>Fusobacterium necrophorum</i>										●																●
<i>Fusobacterium nucleatum</i>										●																●
<i>Fusobacterium varium</i>										●																●
<i>Gardnerella vaginalis</i>						●					●												●			
<i>Geotrichum candidum</i>							●	●																	●	
<i>Geotrichum fermentans</i>																									●	
<i>Geotrichum klebahnii</i>									●																●	
<i>Gardnerella vaginalis</i>						●					●												●			
<i>Gemella haemolysans</i>						●																	●			
<i>Gemella morbillorum</i>						●				●													●			●
<i>Geobacillus stearothermophilus</i>																		●								
<i>Geobacillus thermoglucosidasius</i>																	●									
<i>Geotrichum spp</i>																									●	
<i>Globicatella sanguinis</i>							●																	●		
<i>Gordonia spp</i>											●															
<i>Granulicatella adiacens</i>							●																	●		
<i>Grimontia hollisae</i>	●		●	●																						
<i>Haemophilus influenzae</i>														●												
<i>Haemophilus influenzae biotype I</i>														●												
<i>Haemophilus influenzae biotype II</i>														●												
<i>Haemophilus influenzae biotype III</i>														●												
<i>Haemophilus influenzae biotype IV</i>														●												
<i>Haemophilus influenzae biotype V</i>														●												
<i>Haemophilus influenzae biotype VI</i>														●												
<i>Haemophilus influenzae biotype VII</i>														●												
<i>Haemophilus influenzae biotype VIII</i>														●												
<i>Haemophilus parainfluenzae</i>														●												
<i>Haemophilus parainfluenzae biotype I</i>														●												
<i>Haemophilus parainfluenzae biotype II</i>														●												
<i>Haemophilus parainfluenzae biotype III</i>														●												
<i>Haemophilus parainfluenzae biotype IV</i>														●												
<i>Haemophilus parainfluenzae biotype VI</i>														●												
<i>Haemophilus parainfluenzae biotype VII</i>														●												
<i>Haemophilus parainfluenzae biotype VIII</i>														●												
<i>Hafnia alvei</i>	●	●	●												●						●	●	●			
<i>Helicobacter cinaedi</i>												●														
<i>Helicobacter fennelliae</i>											●															
<i>Helicobacter pylori</i>											●															
<i>Histophilus somni</i>														●												
<i>Klebsiella oxytoca</i>	●	●	●												●						●	●	●			
<i>Klebsiella pneumoniae ssp ozaenae</i>	●		●												●						●	●	●			
<i>Klebsiella pneumoniae ssp pneumoniae</i>	●	●	●												●						●	●	●			
<i>Klebsiella pneumoniae ssp rhinoscleromatis</i>	●		●												●						●	●	●			
<i>Kloeckera apis/apiculata</i>																									●	
<i>Kloeckera apiculata</i>									●																●	
<i>Kloeckera apis</i>									●																●	

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A
<i>Kloeckera japonica</i>										●																●
<i>Kloeckera</i> spp										●																
<i>Kluyvera ascorbata</i>	●		●														●				●	●	●			
<i>Kluyvera cryocrescens</i>	●		●														●				●	●	●			
<i>Kluyvera intermedia</i>	●																●				●	●	●			
<i>Kluyvera</i> spp	●		●																							
<i>Kocuria varians/rosea</i>							●																			
<i>Kocuria kristinae</i>							●																●			
<i>Kocuria rosea</i>							●																●			
<i>Kocuria varians</i>							●																●			
<i>Kodamaea ohmeri</i>										●															●	
<i>Kytococcus sedentarius</i>							●																			
<i>Lachancea kluyveri</i>																										●
<i>Lactobacillus acidophilus/jensenii</i>											●															
<i>Lactobacillus acidophilus</i>										●							●									●
<i>Lactobacillus brevis</i>																	●									
<i>Lactobacillus buchneri</i>																	●									
<i>Lactobacillus casei</i>																	●									
<i>Lactobacillus collinoides</i>																	●									
<i>Lactobacillus coprophilus (Wei.confusa)</i>																	●									
<i>Lactobacillus crispatus</i>																	●									
<i>Lactobacillus curvatus</i>																	●									
<i>Lactobacillus delbrueckii ssp bulgaricus</i>																	●									
<i>Lactobacillus delbrueckii ssp delbrueckii</i>																	●									
<i>Lactobacillus delbrueckii ssp lactis</i>																	●									
<i>Lactobacillus fermentum</i>																	●									
<i>Lactobacillus fructivorans</i>																	●									
<i>Lactobacillus helveticus</i>																	●									
<i>Lactobacillus jensenii</i>											●															
<i>Lactobacillus lindneri</i>																	●									
<i>Lactobacillus paracasei ssp paracasei</i>																	●									
<i>Lactobacillus pentosus</i>																	●									
<i>Lactobacillus plantarum</i>																	●									
<i>Lactobacillus rhamnosus</i>																	●									
<i>Lactobacillus salivarius</i>																	●									
<i>Lactococcus garvieae</i>																	●								●	
<i>Lactococcus lactis ssp cremoris</i>								●									●								●	
<i>Lactococcus lactis ssp hordniae</i>																	●									
<i>Lactococcus lactis ssp lactis</i>								●									●								●	
<i>Lactococcus raffinolactis</i>																	●								●	
<i>Leclercia adecarboxylata</i>	●		●													●					●	●	●			
<i>Leifsonia aquatica</i>												●														
<i>Leptotrichia buccalis</i>																										●
<i>Leuconostoc citreum</i>																	●									
<i>Leuconostoc lactis</i>																	●									
<i>Leuconostoc mesenteroides ssp dextransicum</i>																	●									
<i>Leuconostoc mesenteroides ssp mesenteroides/dextransicum</i>																	●									
<i>Leuconostoc mesenteroides ssp cremoris</i>																	●									
<i>Leuconostoc mesenteroides ssp mesenteroides</i>																	●									
<i>Leuconostoc</i> spp							●																	●		

- Species present in database
- Species identifiable with additional tests

- Changed taxon
- New species

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE		API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Lindnera satumus</i>																										●
<i>Listeria grayi</i>											●		●											●		
<i>Listeria innocua</i>							●				●		●											●		
<i>Listeria ivanovii</i>							●				●		●											●		
<i>Listeria monocytogenes/innocua</i>											●		●											●		
<i>Listeria monocytogenes</i>							●				●		●											●		
<i>Listeria seeligeri</i>							●				●		●											●		
<i>Listeria welshimeri</i>							●				●		●											●		
<i>Listeria spp</i>							●				●													●		
<i>Lysinibacillus fusiformis</i>																	●									
<i>Lysinibacillus sphaericus</i>																●										
<i>Moraxella (Branhamella) catarrhalis</i>														●												
<i>Moraxella lacunata</i>				●															●			●				
<i>Moraxella nonliquefaciens</i>				●																		●				
<i>Moraxella osloensis</i>				●																		●				
<i>Mannheimia haemolytica/Bibersteinia trehalosi</i>				●																		●				
<i>Mannheimia haemolytica</i>	●			●																		●				
<i>Methylobacterium mesophilicum</i>				●																			●			
<i>Micrococcus luteus</i>							●																●			
<i>Micrococcus lylae</i>							●																●			
<i>Microbacterium spp</i>											●															
<i>Micrococcus spp</i>							●																			
<i>Millerozyma farinosa</i>																									●	
<i>Mobiluncus curtisii</i>																										●
<i>Mobiluncus mulieris</i>																										●
<i>Mobiluncus spp</i>																										●
<i>Moellerella wisconsinensis</i>	●		●												●						●	●	●			
<i>Moraxella spp</i>	●			●																		●				
<i>Morganella morganii ssp morganii</i>															●							●				
<i>Morganella morganii ssp sibonii</i>															●											
<i>Morganella morganii</i>	●	●	●																			●	●	●		
<i>Myroides spp/Chryseobacterium indologenes</i>	●																					●				
<i>Myroides spp</i>	●			●																		●		●		
<i>Neisseria animaloris/zoodegmatis</i>				●																						
<i>Neisseria cinerea</i>														●												
<i>Neisseria gonorrhoeae</i>														●												
<i>Neisseria lactamica</i>														●												
<i>Neisseria meningitidis</i>														●												
<i>Neisseria mucosa</i>														●												
<i>Neisseria polysaccharea</i>														●												
<i>Neisseria sicca</i>														●												
<i>Neisseria subflava</i>														●												
<i>Neisseria spp</i>														●												
<i>Nocardia spp</i>											●															
<i>Non-fermenter spp</i>	●																									
<i>Ochrobactrum anthropi</i>	●			●																		●		●		
<i>Oerskovia turbata</i>											●															
<i>Oligella spp</i>																							●			
<i>Oligella ureolytica</i>				●																			●			
<i>Oligella urethralis</i>				●																			●			
<i>Paenibacillus alvei</i>																	●						●			

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Paenibacillus amylolyticus</i>																		●									
<i>Paenibacillus glucanolyticus</i>																		●									
<i>Paenibacillus lautus</i>																		●									
<i>Paenibacillus macerans</i>																		●									
<i>Paenibacillus pabuli</i>																		●									
<i>Paenibacillus polymyxa</i>																		●									
<i>Paenibacillus thiaminolyticus</i>																		●									
<i>Paenibacillus validus</i>																		●									
<i>Pantoea agglomerans</i>																●											
<i>Pantoea dispersa</i>																●											
<i>Pantoea spp</i>	●	●	●													●					●	●	●				
<i>Parabacteroides distasonis</i>											●																●
<i>Parabacteroides merdae</i>																											●
<i>Parvimonas micra</i>											●																●
<i>Pasteurella aerogenes</i>	●			●																	●						
<i>Pasteurella multocida</i>	●			●																	●						
<i>Pasteurella pneumotropica</i>	●			●																	●						
<i>Pasteurella pneumotropica/Mannheimia haemolytica</i>	●																										
<i>Pasteurella spp</i>				●																							
<i>Pectobacterium atrosepticum</i>																					●	●					
<i>Pectobacterium betavasculorum</i>																					●	●					
<i>Pectobacterium carotovorum ssp carotovorum</i>																					●	●					
<i>Pectobacterium carotovorum</i>																					●	●					
<i>Pediococcus acidilactici</i>																	●										
<i>Pediococcus damnosus</i>																	●										
<i>Pediococcus pentosaceus</i>																	●										
<i>Pediococcus spp</i>																	●										
<i>Peptococcus niger</i>											●																
<i>Peptoniphilus asaccharolyticus</i>											●																●
<i>Peptoniphilus indolicus</i>											●																●
<i>Peptostreptococcus group</i>											●																
<i>Photobacterium damsela ssp damsela</i>																					●						
<i>Photobacterium damsela ssp piscicida</i>																					●						
<i>Photobacterium damsela</i>	●			●	●											●					●						
<i>Plesiomonas shigelloides</i>	●	●	●	●												●					●	●	●				
<i>Porphyromonas asaccharolytica</i>											●																●
<i>Porphyromonas endodontalis</i>											●																●
<i>Porphyromonas gingivalis</i>											●																●
<i>Prevotella bivia</i>											●																●
<i>Prevotella buccae</i>											●																●
<i>Prevotella buccalis</i>											●																●
<i>Prevotella denticola</i>											●																●
<i>Prevotella disiens</i>											●																●
<i>Prevotella intermedia/disiens</i>											●																●
<i>Prevotella intermedia</i>											●																●
<i>Prevotella loescheii</i>											●																●
<i>Prevotella melaninogenica/oralis</i>											●																●
<i>Prevotella melaninogenica</i>											●																●
<i>Prevotella oralis</i>											●																●
<i>Priceomyces carsonii</i>																										●	
<i>Prototheca wickerhamii</i>										●																●	

- Species present in database
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- New species

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A
<i>Propionibacterium acnes</i>											●	●														●
<i>Propionibacterium avidum</i>											●	●														●
<i>Propionibacterium granulosum</i>											●	●														●
<i>Propionibacterium propionicum/avidum</i>											●	●														●
<i>Propionibacterium propionicum</i>											●	●														●
<i>Proteus mirabilis</i>	●	●	●													●					●	●	●			
<i>Proteus penneri</i>	●	●	●													●					●	●	●			
<i>Proteus vulgaris group</i>	●	●	●													●					●	●	●			
<i>Providencia alcalifaciens/rustigianii</i>	●																									
<i>Providencia alcalifaciens</i>	●	●	●													●					●	●	●			
<i>Providencia rettgeri</i>	●	●	●													●					●	●	●			
<i>Providencia rustigianii</i>	●															●					●	●	●			
<i>Providencia stuartii</i>	●	●	●													●					●	●	●			
<i>Providencia stuartii/alcalifaciens</i>		●																								
<i>Pseudomonas aeruginosa/fluorescens/putida</i>		●																								
<i>Pseudomonas aeruginosa</i>	●	●		●																	●		●			
<i>Pseudomonas alcaligenes</i>				●																			●			
<i>Pseudomonas fluorescens/putida</i>	●																						●			
<i>Pseudomonas fluorescens</i>	●	●		●																	●		●			
<i>Pseudomonas luteola</i>	●			●																			●			
<i>Pseudomonas mendocina</i>				●																			●			
<i>Pseudomonas oleovorans</i>																							●			
<i>Pseudomonas oryzae/habitans</i>	●			●																			●			
<i>Pseudomonas putida</i>	●	●		●																	●		●			
<i>Pseudomonas stutzeri</i>				●																			●			
<i>Pseudomonas spp</i>		●																				●				
<i>Pseudomonas/Comamonas spp</i>																						●				
<i>Pseudoflavonifractor capillosus</i>																										●
<i>Peptostreptococcus anaerobius</i>												●														●
<i>Psychrobacter phenylpyruvicus</i>				●																			●			
<i>Rahnella aquatilis</i>	●															●					●	●	●			
<i>Ralstonia pickettii</i>				●												●						●	●	●		
<i>Raoultella ornithinolytica</i>	●		●													●					●	●	●			
<i>Raoultella planticola</i>	●		●													●					●	●	●			
<i>Raoultella terrigena</i>	●		●													●					●	●	●			
<i>Raoultella spp</i>																							●			
<i>Rhodotorula glutinis</i>											●															●
<i>Rhodotorula minuta</i>											●															●
<i>Rhodotorula mucilaginosa</i>											●															●
<i>Rhodococcus equi</i>												●														
<i>Rhodococcus spp</i>												●														
<i>Rothia dentocariosa</i>												●														
<i>Rothia mucilaginosa</i>							●																●			
<i>Rhizobium radiobacter</i>				●																	●		●			
<i>Shewanella putrefaciens group</i>	●	●		●																	●		●			
<i>Saccharomyces cerevisiae</i>										●	●											●	●			●
<i>Salmonella enterica ssp arizonae</i>	●	●	●													●					●	●	●			
<i>Salmonella enterica ssp enterica</i>	●	●	●													●					●	●	●			
<i>Salmonella ser. Enteritidis</i>	●																									
<i>Salmonella ser. Gallinarum</i>	●	●	●													●					●	●	●			
<i>Salmonella ser. Paratyphi A</i>	●	●	●													●					●	●	●			

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Salmonella ser.Paratyphi B</i>	●																										
<i>Salmonella ser.Pullorum</i>	●	●	●													●											
<i>Salmonella ser.Typhi</i>	●	●	●																		●	●	●				
<i>Salmonella ser.Typhimurium</i>	●															●											
<i>Salmonella spp</i>	●	●	●													●					●	●	●				
<i>Saprochaete capitata</i>									●	●																	●
<i>Schwanniomyces etchellsii/Priceomyces carsonii</i>																											●
<i>Schwanniomyces etchellsii</i>																											●
<i>Schwanniomyces polymorphus</i>																											●
<i>Serratia ficaria</i>	●			●													●				●	●	●				
<i>Serratia fonticola</i>	●			●													●				●	●	●				
<i>Serratia grimesii</i>																						●					
<i>Serratia liquefaciens</i>	●	●	●													●					●		●				
<i>Serratia liquefaciens/plymuthica</i>																						●					
<i>Serratia marcescens</i>	●	●	●													●					●	●	●				
<i>Serratia odorifera</i>	●	●	●													●					●	●	●				
<i>Serratia plymuthica</i>	●			●												●					●	●	●				
<i>Serratia proteamaculans</i>																●					●	●	●				
<i>Serratia proteamaculans</i>																●					●	●	●				
<i>Serratia rubidaea</i>	●			●												●					●	●	●				
<i>Shigella boydii</i>	●															●					●						
<i>Shigella dysenteriae</i>	●															●					●						
<i>Shigella flexneri</i>	●															●					●						
<i>Shigella sonnei</i>	●	●	●													●					●	●	●				
<i>Shigella spp</i>	●	●	●													●					●	●	●				
<i>Sphingobacterium multivorum</i>		●			●																●		●				
<i>Sphingobacterium spiritivorum</i>					●																●		●				
<i>Sphingomonas paucimobilis</i>					●																●		●				
<i>Sporobolomyces salmonicolor</i>										●																	●
<i>Staphylococcus arlettae</i>																											●
<i>Staphylococcus aureus</i>							●																				●
<i>Staphylococcus auricularis</i>							●																				●
<i>Staphylococcus capitis</i>							●																				●
<i>Staphylococcus caprae</i>							●																				●
<i>Staphylococcus carnosus</i>							●																				●
<i>Staphylococcus chromogenes</i>							●																				●
<i>Staphylococcus cohnii ssp cohnii</i>							●																				●
<i>Staphylococcus cohnii ssp urealyticus</i>							●																				●
<i>Staphylococcus epidermidis</i>							●																				●
<i>Staphylococcus equorum</i>							●																				●
<i>Staphylococcus gallinarum</i>							●																				●
<i>Staphylococcus haemolyticus</i>							●																				●
<i>Staphylococcus hominis</i>							●																				●
<i>Staphylococcus hyicus</i>							●																				●
<i>Staphylococcus intermedius</i>							●																				●
<i>Staphylococcus kloosii</i>							●																				●
<i>Staphylococcus lentus</i>							●																				●
<i>Staphylococcus lugdunensis</i>							●																				●
<i>Staphylococcus pseudintermedius</i>																											●
<i>Staphylococcus saccharolyticus</i>												●															

- Species present in database
- Species identifiable with additional tests
- Changed taxon
- New species

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE		API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A	
<i>Staphylococcus saprophyticus</i>						●																	●			
<i>Staphylococcus schleiferi</i>						●																	●			
<i>Staphylococcus sciuri</i>						●																	●			
<i>Staphylococcus simulans</i>						●																	●			
<i>Staphylococcus warneri</i>						●																	●			
<i>Staphylococcus xylosum</i>						●																	●			
<i>Stenotrophomonas maltophilia</i>	●	●	●	●																●		●				
<i>Streptococcus acidominimus</i>							●																	●		
<i>Streptococcus agalactiae</i>							●																	●		
<i>Streptococcus alactolyticus</i>																								●		
<i>Streptococcus anginosus</i>							●																	●		
<i>Streptococcus bovis</i>																								●		
<i>Streptococcus canis</i>							●																	●		
<i>Streptococcus constellatus ssp constellatus</i>							●																	●		
<i>Streptococcus constellatus ssp pharyngis</i>							●																	●		
<i>Streptococcus constellatus</i>										●														●		
<i>Streptococcus downei</i>											●													●		
<i>Streptococcus downei/sobrinus</i>																								●		
<i>Streptococcus dysgalactiae ssp dysgalactiae</i>							●																	●		
<i>Streptococcus dysgalactiae ssp equisimilis</i>							●																	●		
<i>Streptococcus equi ssp equi</i>							●																	●		
<i>Streptococcus equi ssp zoepidemicus</i>							●																	●		
<i>Streptococcus equinus</i>							●																	●		
<i>Streptococcus gallolyticus ssp gallolyticus</i>							●	●																●		
<i>Streptococcus gallolyticus ssp pasteurianus</i>							●	●																●		
<i>Streptococcus gordonii</i>																								●		
<i>Streptococcus group L</i>							●																	●		
<i>Streptococcus infantarius ssp coli (Str.lutetiensis)</i>							●	●																●		
<i>Streptococcus infantarius ssp infantarius</i>							●	●																●		
<i>Streptococcus intermedius</i>							●			●														●		
<i>Streptococcus mitis</i>							●																	●		
<i>Streptococcus mutans</i>							●																	●		
<i>Streptococcus oralis</i>							●																	●		
<i>Streptococcus parasanguinis</i>																								●		
<i>Streptococcus pluranimalium</i>							●																	●		
<i>Streptococcus pneumoniae</i>							●																	●		
<i>Streptococcus porcinus</i>							●																	●		
<i>Streptococcus pyogenes</i>							●																	●		
<i>Streptococcus salivarius ssp salivarius</i>							●																	●		
<i>Streptococcus salivarius ssp thermophilus</i>																●								●		
<i>Streptococcus sanguinis</i>							●																	●		
<i>Streptococcus sobrinus</i>																								●		
<i>Streptococcus suis I</i>							●																	●		
<i>Streptococcus suis II</i>							●																	●		
<i>Streptococcus uberis</i>							●																	●		
<i>Streptococcus vestibularis</i>																								●		
<i>Tatumella ptyseos</i>																								●		
<i>Tetragenococcus halophilus</i>																●										
<i>Trichosporon asahii</i>										●																●
<i>Trichosporon asteroides</i>																									●	
<i>Trichosporon inkin</i>										●																●

	API® 20 E	API® 10 S	Rapid 20 E™	API® 20 NE			API® Staph	API® 20 Strep	API® Candida	API® 20 C AUX	API® 20 A	API® Coryne	API® Campy	API® Listeria	API® NH	API® 50 CHE	API® 50 CHL	API® 50 CHB		ID 32 E	Rapid ID 32 E	ID 32 GN	ID 32 Staph	Rapid ID 32 Strep	ID 32 C	Rapid ID 32 A
<i>Trichosporon mucoides</i>										●																●
<i>Trichosporon ovoides</i>																										●
<i>Trichosporon spp</i>									●																	
<i>Trueperella bernardiae</i>												●														
<i>Trueperella pyogenes</i>												●														
<i>Turicella otitidis</i>													●													
<i>Vibrio alginolyticus/parahaemolyticus</i>			●																							
<i>Vibrio alginolyticus</i>	●	●	●	●												●				●	●	●				
<i>Vibrio cholerae</i>	●	●	●	●												●				●	●	●				
<i>Vibrio fluvialis</i>	●		●	●												●				●	●	●				
<i>Vibrio metschnikovii</i>				●												●				●	●					
<i>Vibrio mimicus</i>	●			●												●				●	●					
<i>Vibrio parahaemolyticus</i>	●	●	●	●												●				●	●	●				
<i>Vibrio vulnificus/cholerae</i>			●	●												●				●	●					
<i>Vibrio vulnificus</i>	●	●		●												●				●	●	●				
<i>Veillonella parvula</i>											●															
<i>Veillonella spp</i>																										●
<i>Virgibacillus pantothenicus</i>																		●								
<i>Weeksella virosa</i>				●																	●					
<i>Weeksella virosa/Bergeyella zoohelcum</i>																					●					
<i>Weeksella virosa/Empedobacter brevis</i>				●																						
<i>Weissella confusa</i>																	●									
<i>Weissella viridescens</i>																	●									
<i>Xanthomonas campestris</i>																							●			
<i>Yersinia aldovae</i>																●							●			
<i>Yersinia enterocolitica</i>	●	●	●													●					●	●	●			
<i>Yersinia frederiksenii/intermedia</i>	●															●					●	●	●			
<i>Yersinia frederiksenii</i>	●															●					●	●	●			
<i>Yersinia intermedia</i>	●															●					●	●	●			
<i>Yersinia kristensenii</i>	●															●					●	●	●			
<i>Yersinia pestis</i>	●			●												●					●	●	●			
<i>Yersinia pseudotuberculosis</i>	●	●	●													●					●	●	●			
<i>Yersinia ruckeri</i>	●															●					●	●	●			
<i>Zygosaccharomyces spp</i>																										●

YEASTS NOMENCLATURE

Name in the database	Imperfect State	Perfect State	Other names
<i>Candida albicans</i>	<i>Candida albicans</i>		
<i>Candida boidinii</i>	<i>Candida boidinii</i>		
<i>Candida catenulata</i>	<i>Candida catenulata</i>		
<i>Candida ciferrii</i>	<i>Candida ciferrii</i>	<i>Trichomonascus ciferrii</i>	<i>Stephanoascus ciferrii</i>
<i>Candida colliculosa</i>	<i>Candida colliculosa</i>	<i>Torulaspota delbrueckii</i>	
<i>Candida dattila</i>	<i>Candida dattila</i>	<i>Lachancea thermotolerans</i>	<i>Kluyveromyces thermotolerans</i>
<i>Candida dubliniensis</i>	<i>Candida dubliniensis</i>		
<i>Candida famata</i>	<i>Candida famata</i>	<i>Debaryomyces hansenii</i>	
<i>Candida glabrata</i>	<i>Candida glabrata</i>		
<i>Candida globosa</i>	<i>Candida globosa</i>	<i>Citeromyces matritensis</i>	
<i>Candida guilliermondii</i>	<i>Candida guilliermondii</i>	<i>Meyerozyma guilliermondii</i>	
<i>Candida hellenica</i>	<i>Candida hellenica</i>	<i>Zygoascus meyeræ</i>	
<i>Candida holmii</i>	<i>Candida holmii</i>	<i>Kazachstania exigua</i>	<i>Saccharomyces exiguus</i>
<i>Candida inconspicua</i>	<i>Candida inconspicua</i>		
<i>Candida intermedia</i>	<i>Candida intermedia</i>		
<i>Candida kefir</i>	<i>Candida kefir</i>	<i>Kluyveromyces marxianus</i>	
<i>Candida krusei</i>	<i>Candida krusei</i>	<i>Pichia kudriavzevii</i>	
<i>Candida lambica</i>	<i>Candida lambica</i>	<i>Pichia fermentans</i>	
<i>Candida lipolytica</i>	<i>Candida lipolytica</i>	<i>Yarrowia lipolytica</i>	
<i>Candida lusitanae</i>	<i>Candida lusitanae</i>	<i>Clavispora lusitanae</i>	
<i>Candida magnoliae</i>	<i>Candida magnoliae</i>		
<i>Candida melibiosica</i>	<i>Candida melibiosica</i>		
<i>Candida membranifaciens</i>	<i>Candida membranifaciens</i>		
<i>Candida norvegensis</i>	<i>Candida norvegensis</i>	<i>Pichia norvegensis</i>	
<i>Candida norvegica</i>	<i>Candida norvegica</i>		
<i>Candida parapsilosis</i>	<i>Candida parapsilosis</i>		
<i>Candida pelliculosa</i>	<i>Candida pelliculosa</i>	<i>Wickerhamomyces anomalus</i>	
<i>Candida pulcherrima</i>	<i>Candida pulcherrima</i>	<i>Metschnikowia pulcherrima</i>	
<i>Candida rugosa</i>	<i>Candida rugosa</i>		
<i>Candida sake</i>	<i>Candida sake</i>		

Name in the database	Imperfect State	Perfect State	Other names
<i>Candida silvicola</i>	<i>Candida silvicola</i>	<i>Nakazawaea holstii</i>	
<i>Candida spherica</i>	<i>Candida spherica</i>	<i>Kluyveromyces lactis</i> var <i>lactis</i>	
<i>Candida thermophila</i>	<i>Candida thermophila</i>	<i>Ogataea polymorpha</i>	<i>Hansenula polymorpha</i> , <i>Pichia angusta</i>
<i>Candida tropicalis</i>	<i>Candida tropicalis</i>		
<i>Candida utilis</i>	<i>Candida utilis</i>	<i>Lindnera jadinii</i>	
<i>Candida valida</i>	<i>Candida valida</i>	<i>Pichia membranifaciens</i>	
<i>Candida zeylanoides</i>	<i>Candida zeylanoides</i>		
<i>Cryptococcus albidus</i>	<i>Cryptococcus albidus</i>		
<i>Cryptococcus curvatus</i>	<i>Cryptococcus curvatus</i>		
<i>Cryptococcus humicola</i>	<i>Cryptococcus humicola</i>		
<i>Cryptococcus laurentii</i>	<i>Cryptococcus laurentii</i>		
<i>Cryptococcus neoformans</i>	<i>Cryptococcus neoformans</i>	<i>Filobasidiella neoformans</i>	
<i>Cryptococcus terreus</i>	<i>Cryptococcus terreus</i>		
<i>Cryptococcus uniguttulatus</i>	<i>Cryptococcus uniguttulatus</i>	<i>Filobasidium uniguttulatus</i>	
<i>Geotrichum candidum</i>	<i>Geotrichum candidum</i>	<i>Galactomyces candidus</i>	
<i>Geotrichum fermentans</i>	<i>Geotrichum fermentans</i>		
<i>Geotrichum klebahnii</i>	<i>Geotrichum klebahnii</i>		
<i>Kloeckera apiculata</i>	<i>Kloeckera apiculata</i>	<i>Hanseniaspora uvarum</i>	
<i>Kloeckera apis</i>	<i>Kloeckera apis</i>	<i>Hanseniaspora guilliermondii</i>	
<i>Kloeckera japonica</i>	<i>Kloeckera japonica</i>	<i>Hanseniaspora valbyensis</i>	
<i>Kodamaea ohmeri</i>	<i>Kodamaea ohmeri</i>		
<i>Lachancea kluyverii</i>		<i>Lachancea kluyverii</i>	<i>Saccharomyces kluyveri</i>
<i>Lindnera saturnus</i>		<i>Lindnera saturnus</i>	
<i>Millerozyma farinosa</i>	<i>Millerozyma farinosa</i>		
<i>Priceomyces carsonii</i>		<i>Priceomyces carsonii</i>	<i>Pichia carsonii</i>
<i>Prototheca wickerhamii</i>	<i>Prototheca wickerhamii</i>		
<i>Rhodotorula glutinis</i>	<i>Rhodotorula glutinis</i>		
<i>Rhodotorula minuta</i>	<i>Rhodotorula minuta</i>		
<i>Rhodotorula mucilaginosa</i>	<i>Rhodotorula mucilaginosa</i>		
<i>Saccharomyces cerevisiae</i>		<i>Saccharomyces cerevisiae</i>	
<i>Saprochaete capitata</i>	<i>Saprochaete capitata</i>	<i>Magnusiomyces capitatus</i>	
<i>Schwanniomyces etchellsii</i>		<i>Schwanniomyces etchellsii</i>	<i>Pichia etchellsii</i>
<i>Schwanniomyces polymorphus</i>		<i>Schwanniomyces polymorphus</i>	<i>Debaryomyces polymorphus</i>
<i>Sporobolomyces salmonicolor</i>	<i>Sporobolomyces salmonicolor</i>	<i>Sporidiobolus salmonicolor</i>	
<i>Trichosporon asahii</i>	<i>Trichosporon asahii</i>		
<i>Trichosporon asteroides</i>	<i>Trichosporon asteroides</i>		
<i>Trichosporon inkin</i>	<i>Trichosporon inkin</i>		
<i>Trichosporon mucoides</i>	<i>Trichosporon mucoides</i>		
<i>Trichosporon ovoides</i>	<i>Trichosporon ovoides</i>		

REAGENTS TO BE ORDERED

REF.	ADDITIONAL REAGENTS	API 20 E* (a)		Rapid 20E		API 10 S		API 20 ME		API Staph		API 20 Strep		API Coryne		API Listeria		API Candida		API 20 C AUX		API 20 A*		API Campy		API NH		API ZYM		API 50 CH		API 50 CHB/E		API 20 E (a)		API 50 CH 50 CHL			
		20100	20700	10100	20050	20500	20600	20900	10300	10500	20210	20300	20800	10400	25200	50300-50430	20100	50300-50410																					
70380	Zn (2x10g)	X			X																																		
70402	TDA (2x1 ampule)	1/8		1/4																																			
70422	VP 1 VP 2 (2x2 ampules)	1/8	1/8			1/8	1/8																																
70442	NIT 1 NIT 2 (2x2 ampules)	1/8		1/4	1/8	1/8		1/20														1/20																	
70494	ZYM A (2x1 ampule)					1/8	1/8	1/20																															
70493	ZYM B (2x1 ampule)					1/8	1/8	1/20																															
70491	NIN (2 ampules)							1/4															1/4																
70510	BCP (1 ampule)																					1/2																	
70520	EHR (1 ampule)																					1/2																	
70530	XYL (2 ampules)																					1/8																	
70542	James (2x1 ampule)	1/8	1/8	1/4	1/8																																		
70562	FB (2x1 ampule)																						1/4																
SUSPENSION MEDIUM																																							
20230	NaCl 0.85% Medium (5 ml)																					X																	
20040	NaCl 0.85% Medium (3 ml)																					X																	
20070	NaCl 0.85% Medium (2 ml)		1/4		1/4																																		
20150	Suspension Medium (5 ml)	1/4		1/2																																			
70700	Suspension Medium (2 ml)							1/4														1/4																	
ADDITIONAL PRODUCTS																																							
55635	Oxidase Reagent	X	X	X	X																	X																	
50110	API® OF Medium				X																																		
50120	API® M Medium				X																																		
70100	Paraffin oil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
70200	Rack of 12 ampules	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
70250	Sterile PSlpettes (5ml)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
70610	Swabs							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
70900	Mc Farland standard		X		X	X	X				X	X	X	X									X	X				X	X										

*figures = recommended quantity of additional reagent(s) for each strip kit ordered
(eg. TDA = 1/8 <=> 1/8 of kit ref. 70402 (2 TDA ampoules) is required to use one kit of ref. 20100 (25 API 20 E strips))

X = additional product required
(a) : for the API 20 E strip, use the additional reagent kit ref. 20120 (7 ampoules)

REAGENTS TO BE ORDERED

REF.	ADDITIONAL REAGENTS	<div style="display: flex; justify-content: space-around; text-align: center;"> ID 32 Staph ID 32 C ID 32 E Rapid ID 32 E Rapid ID 32 A Rapid ID 32 Strep </div>						
		32500	32200	32400	32700	32300	32600	
70572	VP A VP B (2x2 ampules)	1/8					1/8	
70442	NIT 1 NIT 2	1/8				1/8		
70491	NIN						1/8	
70542	James			1/8	1/8	1/8		
70562	FB	1/8				1/8	1/8	

SIMPLIFIED METHODOLOGIES

STRIPS	REF	MICROORGANISMS	SUSPENSION: INOCULATOR 3 ML MANUAL 2 ML	MC FARLAND	VOLUME TRANSFERRED	MEDIUM	INCUBATION TIME	TEMP.	ATMOSPHERE
API® 20 E	20100 20160	Enterobacteriaceae and other non-fastidious Gram negative bacilli	NaCl 0.85% Medium 5 ml Suspension Medium 5 ml	1 colony	NA	NA	18-24h/48h	37°C	Aerobic
RapiD 20 E	20701	Enterobacteriaceae	NaCl 0.85% Medium 2 ml	0.5 McF	NA	NA	4h	37°C	Aerobic
API® 10 S	10100	Enterobacteriaceae and other non-fastidious Gram negative bacilli	NaCl 0.85% Medium 5 ml Suspension Medium 5 ml	1 colony	NA	NA	18-24h	37°C	Aerobic
API® 20 NE	20050	Non-Enterobacteriaceae and non-fastidious Gram negative bacilli	NaCl 0.85% Medium 2 ml	0.5 McF	200 µL	API AUX	24-48h	30°C	Aerobic
API® Staph	20500	Genres Staphylococcus, Kocuria and Micrococcus	API Staph Medium	0.5 McF	NA	Medium	18-24h	37°C	Aerobic
API® 20 Strep	20600	Streptococques	Suspension Medium 2 ml	4 McF	500 µl	NA	4h-24h	37°C	Aerobic
API® Coryne	20900	Bacteria coryneformes	Suspension Medium 3 ml	>6 McF	500 µl	Medium	24h	37°C	Aerobic
API® Listeria	10300	Listeria	Suspension Medium 2 ml	1 McF	NA	API GP	24h	37°C	Aerobic
API® Candida	10500	Yeasts	NaCl 0.85% Medium 2 ml	3 McF	NA	Medium	18-24h	37°C	Aerobic
API® 20 C AUX	20210	Yeasts	NaCl 0.85% Medium 2 ml Suspension Medium 2 ml	2 McF	100 µl	NA	48-72h	30°C	Aerobic
API® 20 A	20300	Anaerobes	API 20 A Medium	3 McF	NA	NA	24h	37°C	Anaerobic
API® Campy	20800	Campylobacter	NaCl 0.85 % Medium 3 ml	6 McF	150 µl	API C	24h	37°C	Aerobic/CO ₂
API® NH	10400	Neisseria – Haemophilus and Moraxella (<i>Branhamella</i>) catarrhalis	NaCl 0.85% Medium 2 ml	4 McF	NA	Medium	2h	37°C	Aerobic
API® ZYM	25200	Semi-quantitative enzyme activity tests	NaCl 0.85% Medium 2 ml Suspension Medium 2 ml	5-6 McF	NA	NA	4h	37°C	Aerobic
API® 50 CH API® 50 CHB/E	50300 50430	Bacillus	NaCl 0.85% Medium 5 ml + API 50 CHB/E Medium	2 McF 2 McF	NA	API AUX	24-48h 3/6-24h	30°C 55°C	Aerobic
API® 50 CH API® 50 CHB/E	50300 50430	Enterobacteriaceae	NaCl 0.85% Medium 5 ml + API 50 CHB/E Medium	0.5 McF 0.5 McF	NA	Medium	24-48h	37°C	Aerobic
API® 50 CH API® 50 CHL	50300 50410	Lactobacillus	API 50 CHL Medium	2 McF	NA	NA	30/48h	30/37°C	Aerobic

SIMPLIFIED METHODOLOGIES

STRIPS	REF	MICROORGANISMS	SUSPENSION INOCULATOR 3 ML MANUAL 2 ML	MC FARLAND	VOLUME TRANSFERRED	MEDIUM	VOLUME DISPENSED	INCUBATION TIME	TEMP.	ATMOSPHERE
Rapid ID 32 E	32700	Enterobacteria	NaCl 0.85% Medium	0.5	NA	NA	55 µl x 32	37°C	4h	Aerobic
Rapid ID 32 A	32300	Anaerobes	Suspension Medium	4	NA	NA	55 µl x 32	37°C	4h	Aerobic
Rapid ID 32 STREP	32600	Streptococci	Suspension Medium	4	NA	NA	55 µl x 32	37°C	4h	Aerobic
ID 32 E	32400	Enterobacteria Non Enterobacteria	NaCl 0.85% Medium	0.5	NA	NA	55 µl x 32	37°C	24h	Aerobic + humidity
ID 32 STAPH	32500	Staphylococci	Suspension Medium	0.5	NA	NA	55 µl x 32	37°C	24h	Aerobic + humidity
ID 32 C	32200	Yeasts	Suspension Medium	2	250 µl	API C Medium	135 µl x 32	30°C	24/48h	Aerobic + humidity

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