ThermoFisher SCIENTIFIC

Ion AmpliSeq rapid microbial identification panel

The Ion AmpliSeq™ rapid microbial identification (RMID) research panel is a custom next-generation sequencing (NGS) panel built by the Thermo Fisher Scientific R&D white glove design service. This custom panel combines the power of metagenomics sequencing and targeted species-specific amplicons for easy, automated NGS-based detection and identification of bacteria, mycobacteria, and fungi in a single assay in as little as 24 hours.

Fast and simple NGS workflow with walkaway automation

Get NGS test results in as little as 24 hours with just 10 minutes of hands-on time for library preparation through sequencing

Comprehensive panel design

Simultaneously perform metagenomic and targeted species-specific analysis for bacteria, mycobacteria, and fungi in a single assay powered by Ion AmpliSeq™ technology

Verified performance

Reliably detect relevant microbial species using a panel designed and tested by community users with real-world clinical research samples

Customize the panel to meet your needs

Add or remove targets in the panel design to develop the exact NGS test you need for your application

Ion AmpliSeq RMID panel design includes:

- Species-specific amplicons to identify 88 microbial species (refer to table on next page)
- 16S rRNA (8 out of 9 variable regions) for bacterial metagenomic analysis
- Clinical and Laboratory Standards Institute (CLSI) reference primers for fungal ITS, D1/D2 regions of the fungal 28S large ribosomal subunit
- *rpoB* for bacterial and mycobacterial detection

Available on the Ion Torrent™ Genexus™ Integrated Sequencer and the Ion GeneStudio™ S5 systems

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Ion AmpliSeq RMID panel

Contains species-specific amplicons for detection of 88 microbes

List of microbial species targeted with species-specific amplicons				
Acinetobacter baumannii	*Campylobacter jejuni*	*Escherichia coli*	*Lactobacillus murinus*	*Pseudomonas aeruginosa*
Anaerococcus vaginalis	*Campylobacter rectus*	*Eubacterium limosum*	*Lactobacillus reuteri*	*Roseburia intestinalis*
Atopobium parvulum	*Candida albicans*	*Eubacterium rectale*	*Lactobacillus rhamnosus*	*Ruminococcus bromii*
Bacteroides fragilis	*Chlamydia pneumoniae*	*Faecalibacterium prausnitzii*	*Lactococcus lactis*	*Ruminococcus gnavus*
Bacteroides nordii	*Chlamydia trachomatis*	*Fusobacterium nucleatum*	*Mycoplasma fermentans*	*Serratia marcescens*
Bacteroides thetaiotaomicron	*Citrobacter freundii*	*Gardnerella vaginalis*	*Mycoplasma penetrans*	*Slackia exigua*
Bacteroides vulgatus	*Citrobacter rodentium*	*Gemmiger formicilis*	*Neisseria meningitidis*	*Staphylococcus aureus*
Barnesiella intestinihominis	*Cloacibacillus porcorum*	*Haemophilus influenzae*	*Parabacteroides distasonis*	*Staphylococcus epidermidis*
Bifidobacterium adolescentis	*Clostridium difficile*	*Helicobacter bilis*	*Parabacteroides merdae*	*Staphylococcus haemolyticus*
Bifidobacterium animalis	*Collinsella aerofaciens*	*Helicobacter bizzozeronii*	*Parvimonas micra*	*Streptococcus gallolyticus*
Bifidobacterium bifidum	*Collinsella stercoris*	*Helicobacter hepaticus*	*Peptostreptococcus anaerobius*	*Streptococcus infantarius*
Bifidobacterium longum	*Desulfovibrio alaskensis*	*Helicobacter pylori*	*Peptostreptococcus stomatis*	*Streptococcus pneumoniae*
Blautia obeum	*Dorea formicigenerans*	*Holdemania filiformis*	*Phascolarctobacterium faecium*	*Streptococcus pyogenes*
Borrelia burgdorferi	*Enterobacter cloacae*	*Klebsiella oxytoca*	*Porphyromonas gingivalis*	*Streptococcus salivarius*
Campylobacter concisus	*Enterococcus faecalis*	*Klebsiella pneumoniae*	*Prevotella copri*	*Streptococcus sanguinis*
Campylobacter curvus	*Enterococcus faecium*	*Lactobacillus acidophilus*	*Prevotella histicola*	*Veillonella parvula*
Campylobacter gracilis	*Enterococcus gallinarum*	*Lactobacillus delbrueckii*	*Propionibacterium acnes*	
Campylobacter hominis	*Enterococcus hirae*	*Lactobacillus johnsonii*	*Proteus mirabilis*	

Reach out to your sales representative to learn more, or contact us at **thermofisher.com/ampliseq-quote** to request pricing details.

Contact us

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