







rRNA depletion for any bacteria

Pan-Bacteria riboPOOL

The Pan-Bacteria riboPOOL is designed to efficiently remove ribosomal RNA (rRNA) of both **Gram-positive** and **Gram-negative** bacteria. It can be applied to total RNA originating from environmental (mixed) samples or pure cultures.

- The Pan-Bacteria riboPOOL offers:**
-  Efficient rRNA-depletion for any bacteria species
 -  Possibility to combine with other riboPOOL.
 -  Fast and enzyme-free workflow
 -  Compatible with lab-automated workflows

Pan-Bacteria riboPOOL Performance

The Pan-Bacteria riboPOOL can consistently remove >90% of rRNA from total RNA of different species. The ability of the Pan-Bacteria riboPOOL to target bacterial rRNAs has been tested in silico by calculating the proportion of riboPOOL probes exhibiting > 90% identity to their target 16S (Figure 2) and 23S (Figure 3) regions in more than 12,000 species.

Pan-Bacteria riboPOOL rRNA Depletion Efficiency

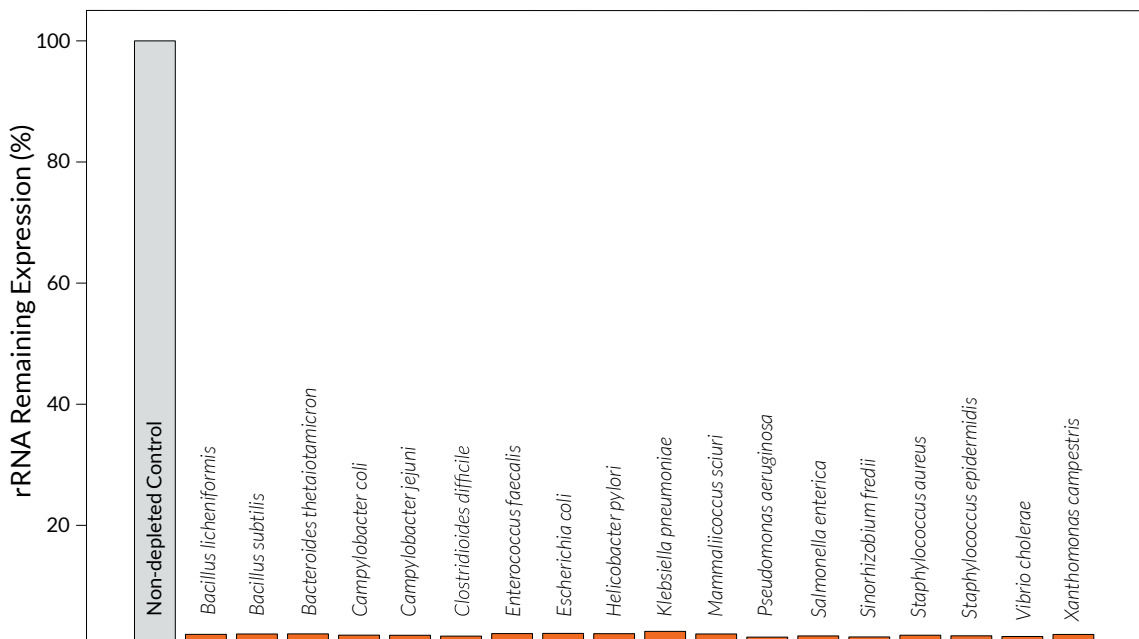


Figure 1 Remaining percentage of rRNA in different bacterial species after depletion with the Pan-Bacteria riboPOOL. Data shown refers to relative percentage of reads mapping to target rRNAs compared to non-depleted sample.



Pan-Bacteria riboPOOL probes mapping to 16S rRNA

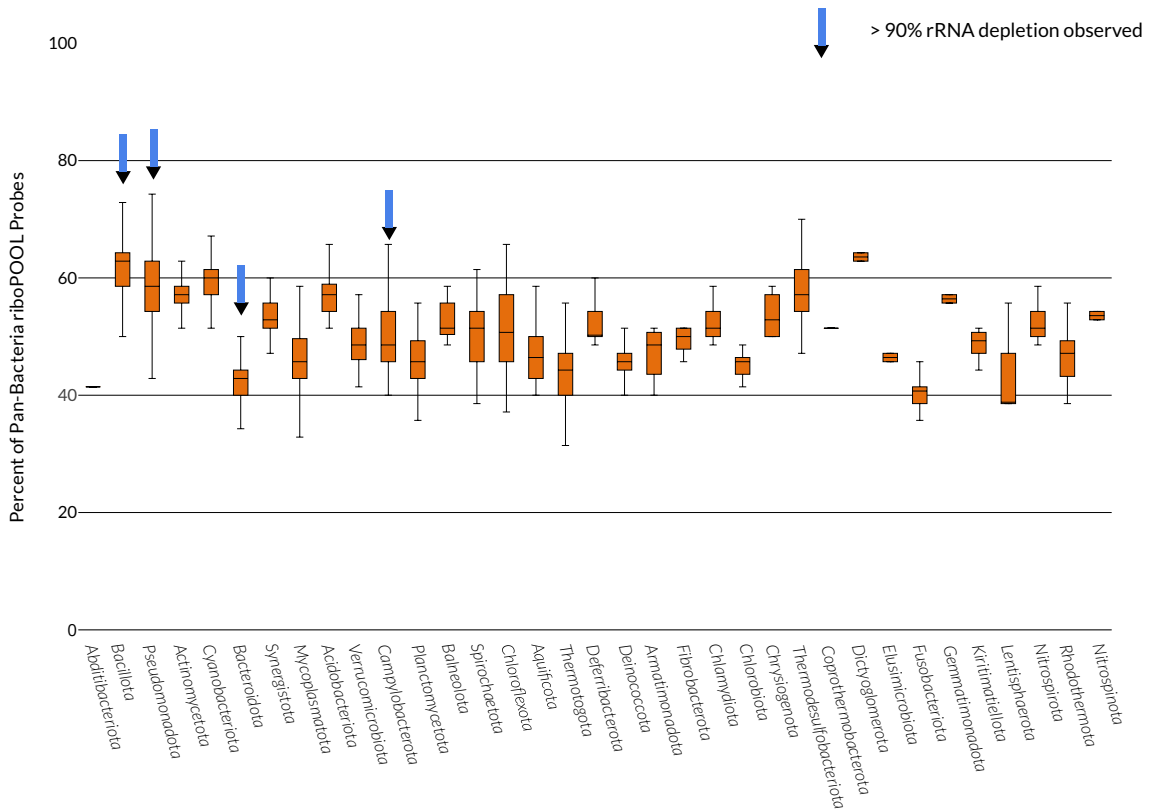


Figure 2 Percentage of Pan-Bacteria riboPOOL probes exhibiting >90% identity with their target 16S rRNA sequence of >12,000 bacteria species (divided by phylum). Blue arrows and bold text indicate phyla for which depletion rates were validated with RNA-Seq (Figure 1).

Pan-Bacteria riboPOOL probes mapping to 23S rRNA

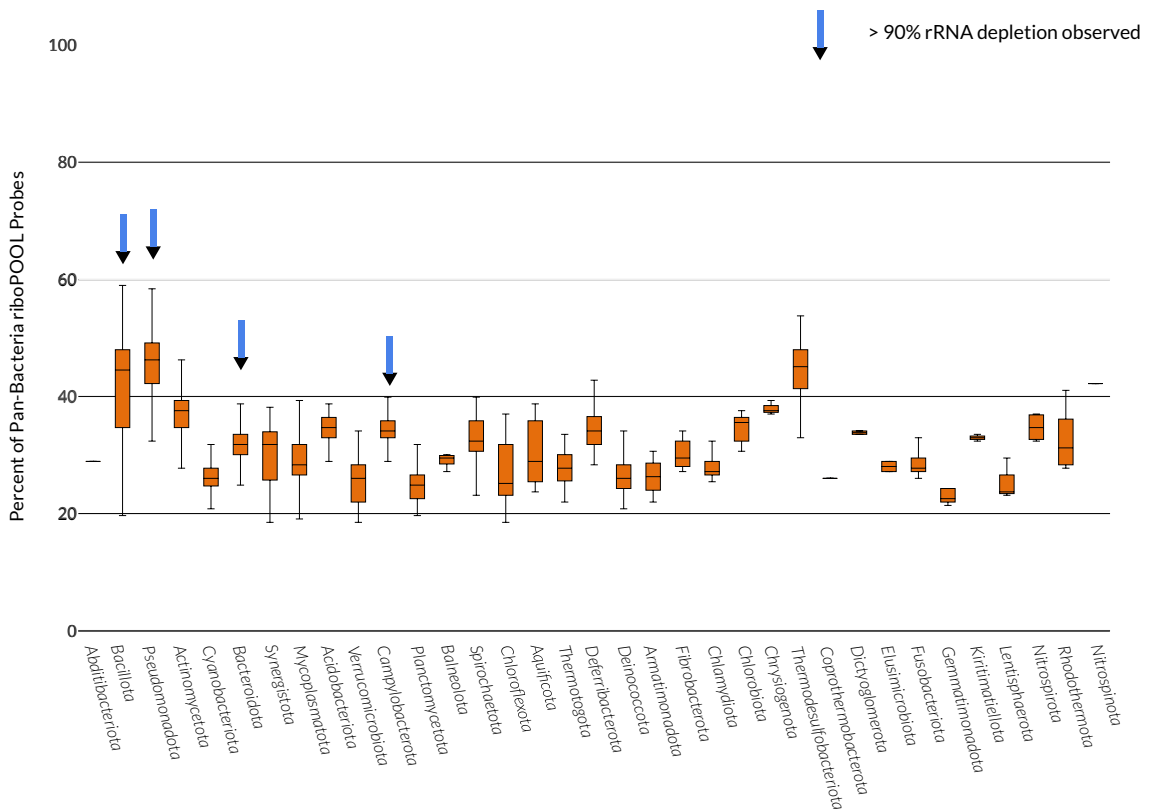
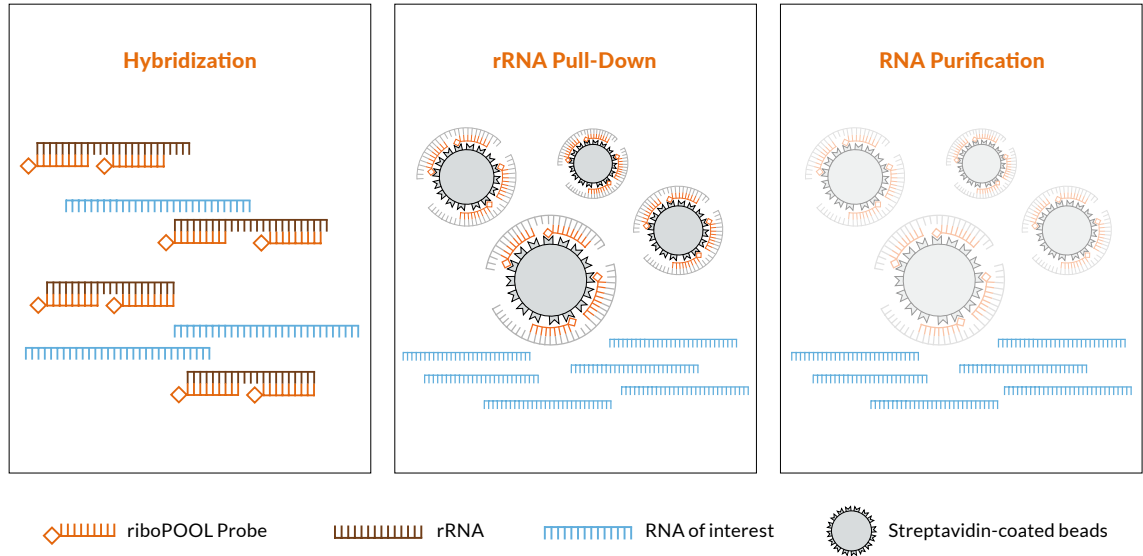


Figure 3 Percentage of Pan-Bacteria riboPOOL probes exhibiting >90% identity with their target 23S rRNA sequence of >12,000 bacteria species (divided by phylum). Blue arrows and bold text indicate phyla for which depletion rates were validated with RNA-Seq (Figure 1).

Workflow

The Pan-Bacteria ripoPOOL consist of a complex pool of biotinylated probes specifically design to target and remove rRNAs from bacteria total RNA samples. Hybridization of ripoPOOL probes to rRNA fragments is followed by rRNA pull-down via streptavidin-coated magnetic beads and RNA purification. The entire workflow can be completed in under 2 hours and can easily be integrated into established RNA-Seq workflows.



Combining the Pan-Bacteria ripoPOOL

With Combination ripoPOOLS, it is possible to combine the Pan-Bacteria ripoPOOL with up to three other ripoPOOLS of choice. Combination ripoPOOLS allow to simultaneously deplete rRNAs from different species. Figure 4 shows how a Pan-Sponge + Pan-Bacteria Combination ripoPOOL can effectively remove rRNAs of the sponge *Lendenfeldia chondrodes* and its associated microbiome.

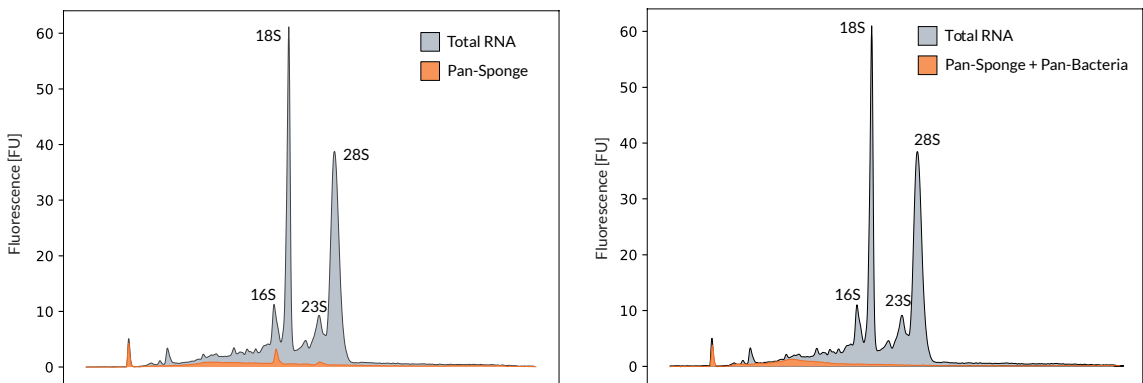




Figure 4 Bioanalyzer profiles of *Lendenfeldia chondrodes* total RNA before (gray) and after (orange) depletion with a) Pan-Sponge ripoPOOL, and b) Combination ripoPOOL: Pan-Sponge and Pan-Bacteria ripoPOOL.

Ordering

The Pan-Bacteria riboPOOL can be ordered in two different formats:

 Full kit: includes all necessary reagents for ribodepletion. For post-depletion RNA purification, the kit allows to choose between magnetic beads or ethanol precipitation.

 Probes only. Streptavidin beads and buffers are not included.

riboPOOL Kit

12rxn Catalogue Nr. dp-K012-26	24rxn Catalogue Nr. dp-K024-26	96rxn Catalogue Nr. dp-K096-26
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riboPOOL Probes

12rxn Catalogue Nr. dp-P012-26	24rxn Catalogue Nr. dp-P024-26	96rxn Catalogue Nr. dp-P096-26
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Distributors

Europe

Country/Region	Distributor	Website
Czech Republic	Eastport Life Sciences	www.eastport.cz
Germany - Austria	Biozym Scientific	www.biozym.com
Italy	Diatech Lab Line	www.labline.it
Netherlands	Westburg Life Sciences	www.westburg.eu
Scandinavia	LabLife Nordic AB	www.lablifenordic.com
Spain	Labclinics	www.labclinics.com
United Kingdom	Cambridge Bioscience	www.bioscience.co.uk

North America

Country/Region	Distributor	Website
USA - Canada	Galen Lab Supplies	www.galenmolecular.com

Asia

Country/Region	Distributor	Website
China	Bluescape	www.bluescape.cc
	Pukairui	www.pukairui.com
Israel	Eisenberg Bros. Ltd	www.eisenbros.co.il
Japan	Bizcom Japan	www.bizcomjapan.co.jp
South Korea	Koma Biotech	www.komabiotech.co.kr
Taiwan	Interlab CO., LTD,	www.interlab.com.tw
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Customer Support

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