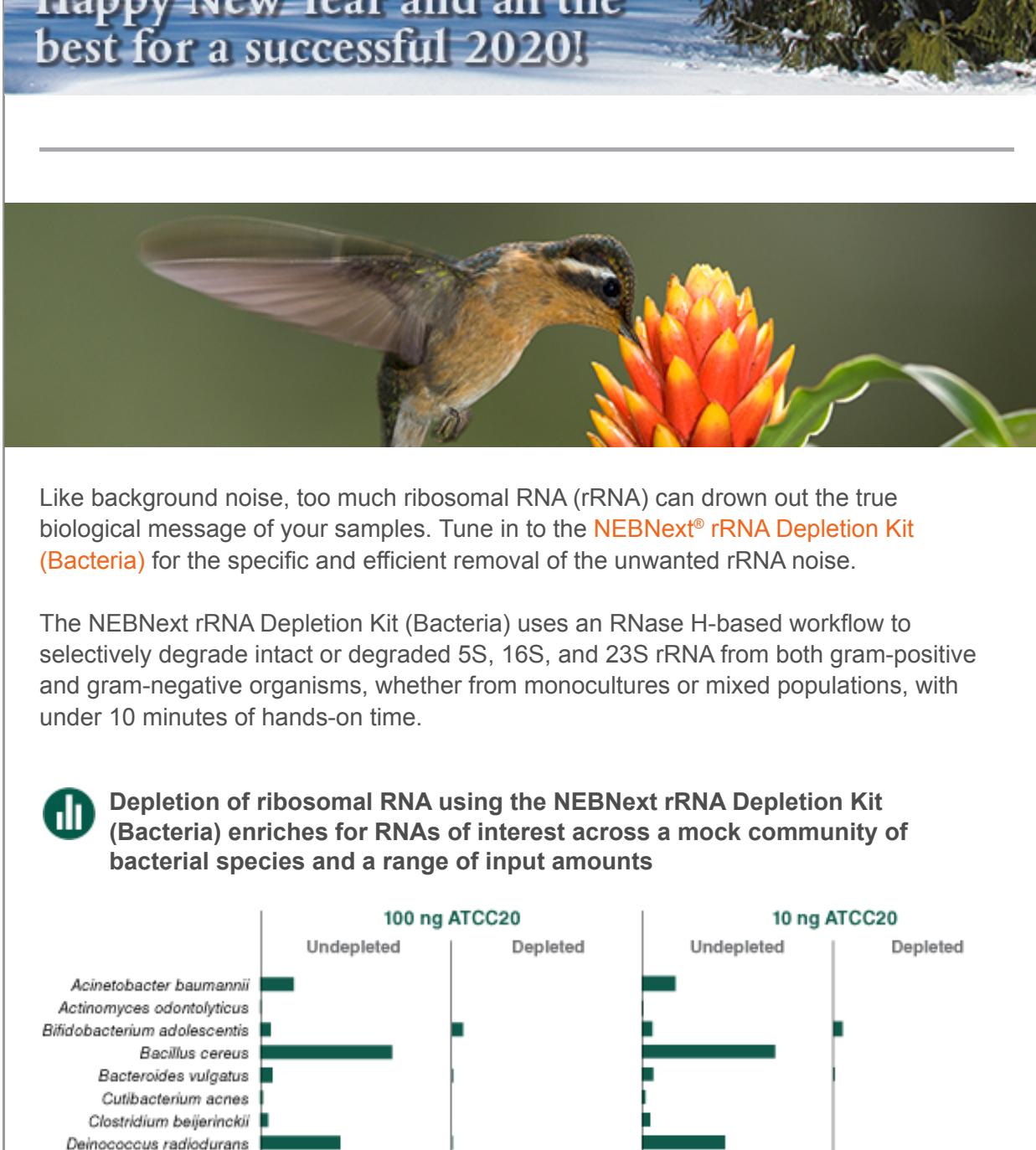


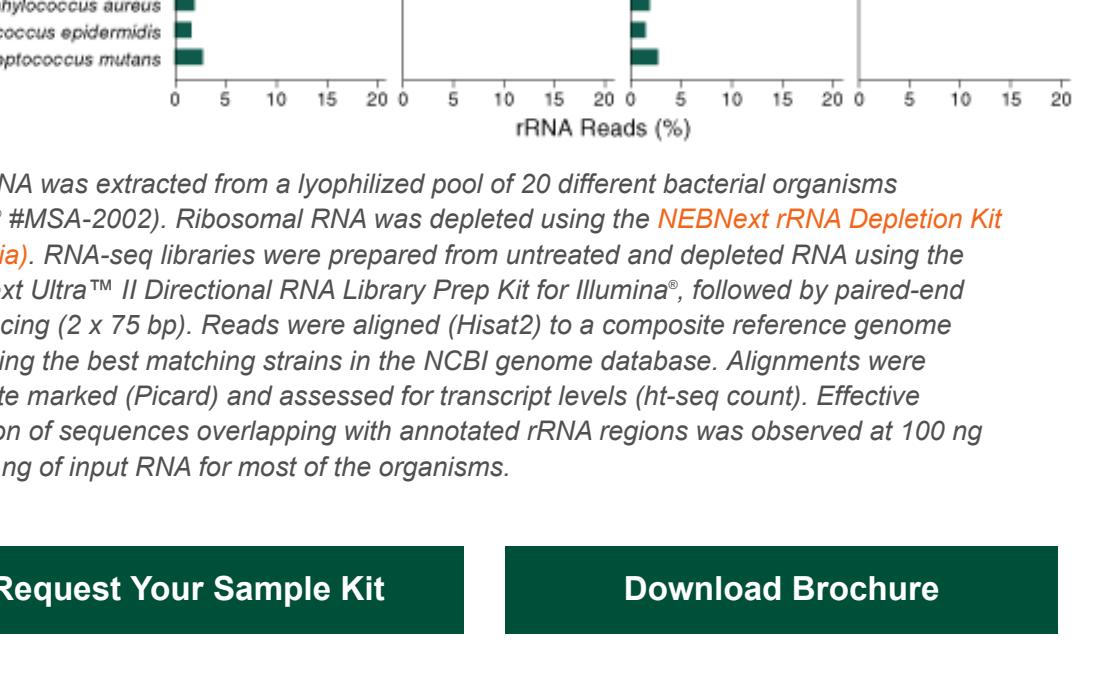


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stay GENUINE

January 2020



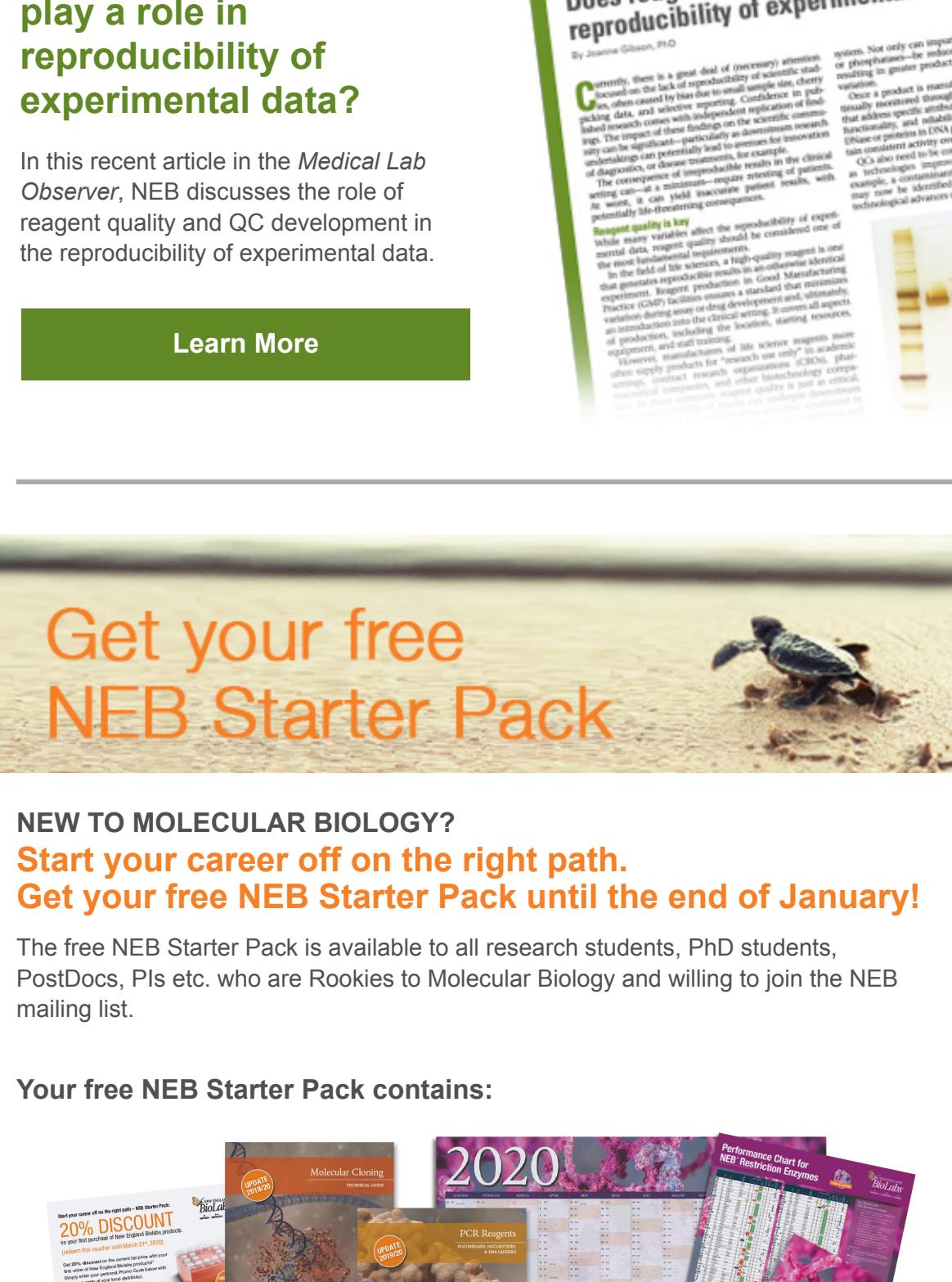
Happy New Year and all the best for a successful 2020!



Like background noise, too much ribosomal RNA (rRNA) can drown out the true biological message of your samples. Tune in to the **NEBNext® rRNA Depletion Kit (Bacteria)** for the specific and efficient removal of the unwanted rRNA noise.

The NEBNext rRNA Depletion Kit (Bacteria) uses an RNase H-based workflow to selectively degrade intact or degraded 5S, 16S, and 23S rRNA from both gram-positive and gram-negative organisms, whether from monocultures or mixed populations, with under 10 minutes of hands-on time.

Depletion of ribosomal RNA using the NEBNext rRNA Depletion Kit (Bacteria) enriches for RNAs of interest across a mock community of bacterial species and a range of input amounts



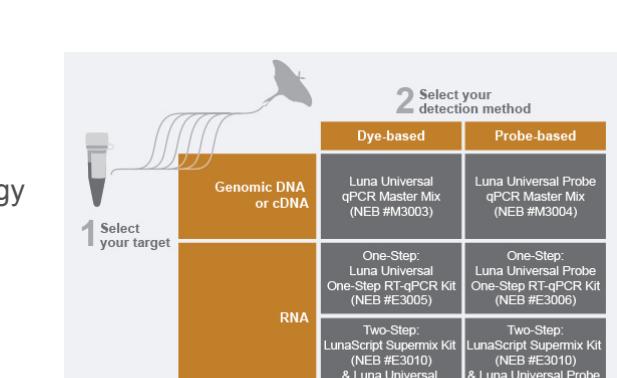
Total RNA was extracted from a lyophilized pool of 20 different bacterial organisms (ATCC #MSA-2002). Ribosomal RNA was depleted using the **NEBNext rRNA Depletion Kit (Bacteria)**. RNA-seq libraries were prepared from untreated and depleted RNA using the NEBNext Ultra™ II Directional RNA Library Prep Kit for Illumina®, followed by paired-end sequencing (2 x 75 bp). Reads were aligned (Hisat2) to a composite reference genome containing the best matching strains in the NCBI genome database. Alignments were duplicate marked (Picard) and assessed for transcript levels (ht-seq count). Effective depletion of sequences overlapping with annotated rRNA regions was observed at 100 ng and 10 ng of input RNA for most of the organisms.

[Request Your Sample Kit](#)

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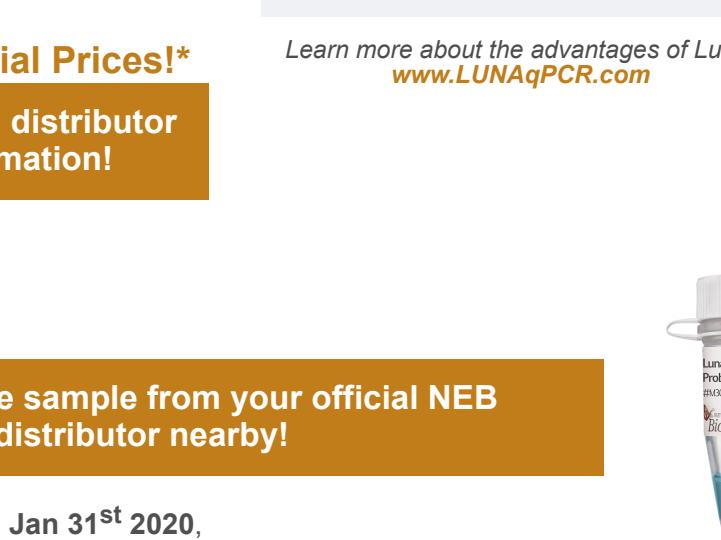
Speedy separations with the NEBNext Magnetic Separation Rack

Clean up and size-select your libraries in the blink of an eye with our new rack. Need proof? [Watch this video.](#)



Celebrating 10 Years of NEBNext

Thank you to our NEBNext users, past and present, for making us a part of your NGS library prep workflows.



Feature article:

Does reagent quality play a role in

reproducibility of experimental data?

In this recent article in the *Medical Lab Observer*, NEB discusses the role of reagent quality and QC development in the reproducibility of experimental data.

[Learn More](#)

EDUCATION = DEVELOPING QC PRACTICES

Does reagent quality play a role in reproducibility of experimental data?

By Joanne Gibson, PhD

Currently, there is a great deal of unnecessary attention given to the lack of reproducibility of scientific studies, often due to small sample sizes and lack of published research. While these findings on the scientific community are significant—particularly to assess the undertaking of innovative treatments, for example, of cancerous disease, it is important to remember that reproducibility is a key component of improving patient care, with the potential to save lives.

Reagent quality is key. While reagent quality should be considered one of the most important determinants, the most important aspect of the field of life sciences, a high-quality reagent is one that generates reproducible results. Quality Manufacturing Practices (QMP) facilitate standardization that minimizes variations during the production and supply chain, as well as its transition into the clinical setting. Factors such as equipment, reagents, and starting resources, also affect the reproducibility of life science experiments.

While many manufacturers of life science reagents are often supply products for research use only, academic, pharmaceutical, and biotechnology companies, and reagent quality is just as important for these products as it is for those used in diagnostic applications.

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This pre-mixed, ready-to-load molecular weight marker with one tracking dye has been optimized for use on GelRed®, GelGreen® and SYBR® Safe precast agarose gels.

Mass (ng) Kilobases

20 10.0

24 6.0

20 5.0

16 4.0

60 3.0

20 2.0

28 1.5

23 1.2

61 1.0

17 0.9

15 0.8

14 0.7

11 0.6

62 0.5

25 0.4

18 0.3

16 0.2

30 0.1

1% TBE Agarose 0.5 µg

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