



GET IT DIRECT

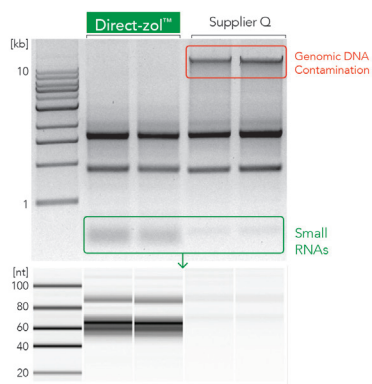
TRIsol® In. RNA Out.

NGS-Ready RNA from TRIsol® in 7 Minutes

Direct-zol™ RNA (any sample: cells, tissue, biological fluids, etc.)

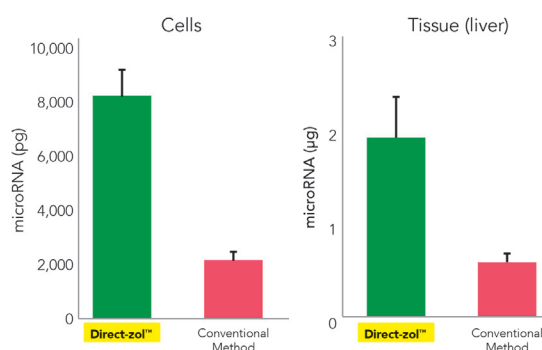
- **Easy Handling:** No phase separation or precipitation steps.
- **NGS-Ready:** Ultra-pure RNA without phenol carryover. No DNA contamination (DNase I included).
- **Non-Biased:** Complete RNA recovery without miRNA loss.

NGS-Ready RNA



High-quality intact small and large RNAs are efficiently recovered using a Direct-zol™ RNA kit compared to using a Supplier Q kit. RNA is DNA-free and ready for all downstream applications including NGS.

Highest Yields



Direct-zol™ RNA kits recovered ~4-fold more miRNAs (<40 nt) than conventional methods. miRNAs purified from cells and tissue were quantified using Bioanalyzer small RNA chip.

Try a **free sample** and experience the future today! www.zymoresearch.com/direct-zol



info@zymoresearch.com



www.zymoresearch.com



Toll Free: (888) 882-9682

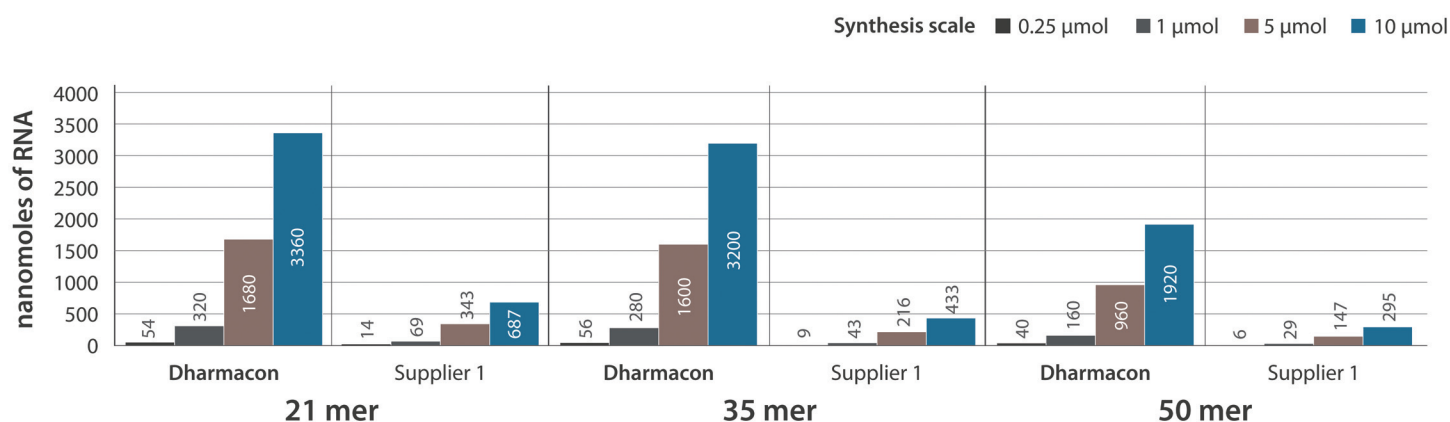


Meet your custom RNA requirements with our nearly limitless synthetic options

If your NMR, crystallography, or RNA binding study requires a non-standard chemical modification or a commercially unavailable modified nucleobase, we can help. For more than 20 years our chemists have utilized Dharmacon™ proprietary 2' ACE chemistry to synthesize RNA with superior yield and quality giving you the flexibility you need.

Better RNA yields give you more for your money

RNA yield (HPLC-purified)



The yield for RNA oligos of three different lengths was compared for all available synthesis scales between Dharmacon and a competitor.



The AACR logo consists of the letters "AACR" in a bold, white, sans-serif font, set against a green rectangular background.

American Association
for Cancer Research™

ANNUAL MEETING

2019  ATLANTA

March 29-April 3 | Georgia World Congress Center | Atlanta, GA

The top half of the poster features a large, abstract geometric design. It includes a green triangle in the top right corner containing a white grid pattern, a grey triangle below it, and a blue triangle on the left. A central yellow triangle contains a photograph of a man in a lab coat. Below this, a dark blue triangle contains a photograph of crumpled paper and small green squares.

Join us in Atlanta for the latest innovative and
inspiring cancer research from around the world

Register Today!

Become a Member! Join the AACR and receive a discount on registration

The AACR Annual Meeting highlights the work of the greatest minds in cancer science and medicine from institutions all over the world. This meeting presents the many scientific discoveries across the breadth of cancer research—from prevention, early detection, and interception; to cancer biology, translational, and clinical studies; to survivorship, population science, and advocacy. This year's program, with the theme of "Integrative Cancer Science • Global Impact • Individualized Patient Care," will be a comprehensive, cutting-edge scientific event that you will not want to miss!

INTEGRATIVE CANCER SCIENCE
GLOBAL IMPACT
INDIVIDUALIZED PATIENT CARE



#AACR19



AACR.org/AnnualMeeting

2019 RNA Meetings at CSHL



aerial view of CSHL sandspit and inner harbor during meeting social

RNA Control & Regulation

84th CSHL Symposium May 29 - June 3, 2019 Poster abstracts due March 8

Terri Grodzicker, David Stewart, Bruce Stillman *Cold Spring Harbor Laboratory*

Topics

RNA-Based Structures

RNA Modifications

Nuclear Localization of RNA

Quality Control & Editing

RNA & Gene Regulation

Cotranscriptional Splicing

Intron / Exon Boundaries

Alternative Polyadenylation

Transposon Control

Small Noncoding RNAs

Long Noncoding RNAs

RNA & Development

Membrane-Less Organelles

Phase Separation

RNA-Based Diseases

Novel RNA functions

meetings.cshl.edu/rnasymp

RNA & Oligonucleotide Therapeutics

March 27 - 30, 2019 Abstracts due January 11

Annemieke Aartsma-Rus, *Leiden University Medical Center* **Masad Damha**, *McGill University*

Matthew Stanton, *Generation Bio* **Laura Sepp-Lorenzino**, *Vertex Pharmaceuticals Inc.*

Topics

Nucleic Acid Chemistry

Delivery

Emerging Therapeutics

Preclinical Development

Clinical Programs

Safety

meetings.cshl.edu/rnatx19

Eukaryotic mRNA Processing

August 20 - 24, 2019 Abstracts due May 31

Alberto Kornblihtt, *University of Buenos Aires, Argentina*

Jens Lykke-Andersen, *University of California, San Diego*

Karla Neugebauer, *Yale University*

Topics

Alternative splicing

Mechanisms of RNA Splicing

RNA-Protein interactions

RNP complexes

3' end processing

RNA modification

RNA structure

Co-transcriptional RNA processing

RNA turnover & quality control

Small RNA biogenesis and function

Viruses and RNA processing

meetings.cshl.edu/mrna19



meeting participants at social



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Superior mRNA Therapeutics Start **HERE**

TriLink® CleanCap™ technology sets a new standard for superior mRNA translation.

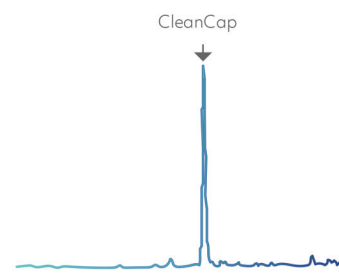
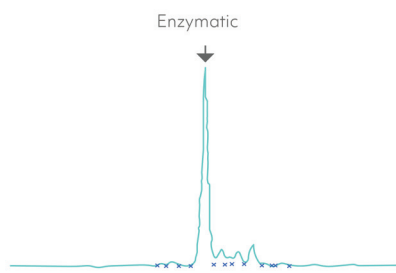
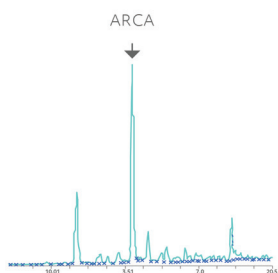
COST: Lowest cost per milligram of biologically active Cap 1 mRNA due to increased yield - **lower than ARCA!**

TIME: Simplified transcription process - "Single pot" reaction to produce a Cap 1 structure

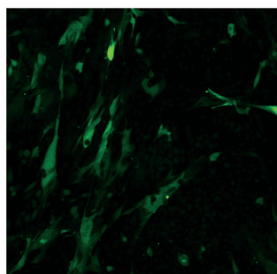
EFFICIENCY: 90-99% capping efficiency. Reduced cellular innate immune response with natural Cap 1 mRNA



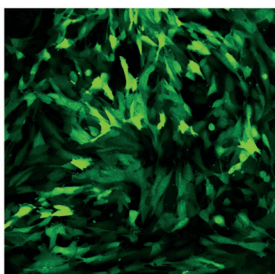
Successful development of mRNA therapeutics relies on reproducible, high-efficiency production of capped mRNA. CleanCap™ uses a new co-transcriptional chemical process for the highest level of mRNA capping:



LC-MS Capping Analysis



ARCA EGFP mRNA



CleanCap™ EGFP mRNA

Available as:

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mRNA -
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custom



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reagents



CleanCap™
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services



The comparison is clear.

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