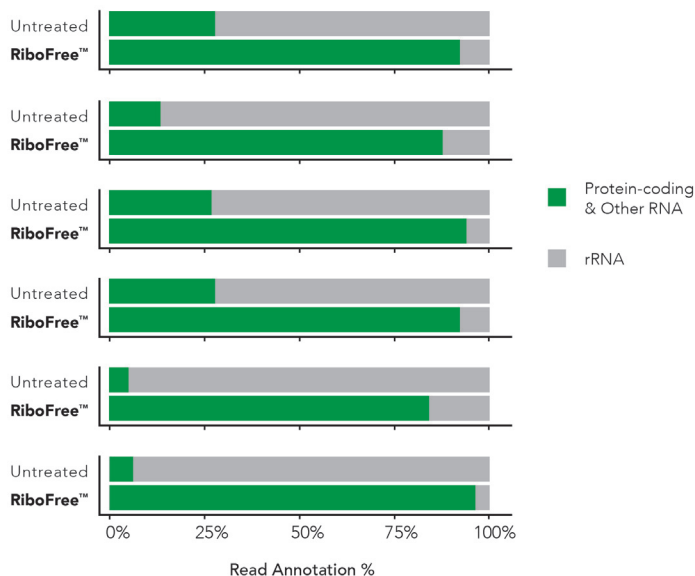
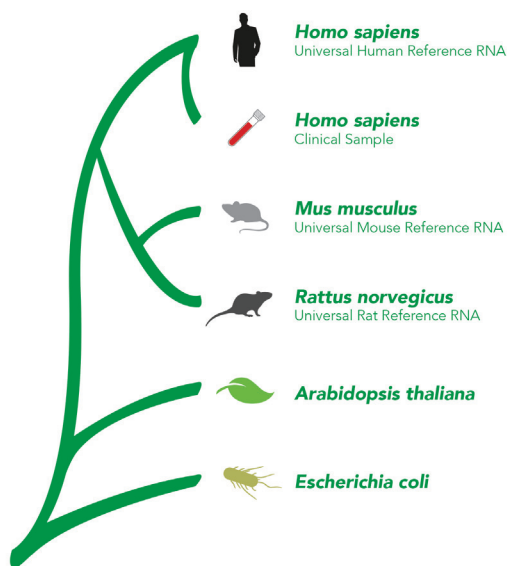


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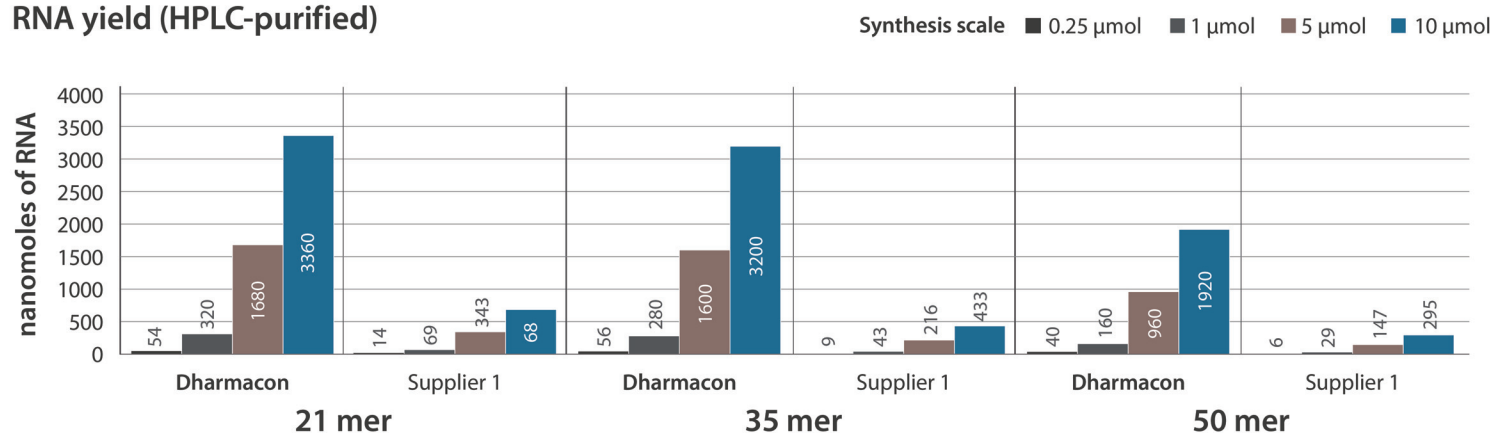


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RNA yield (HPLC-purified)



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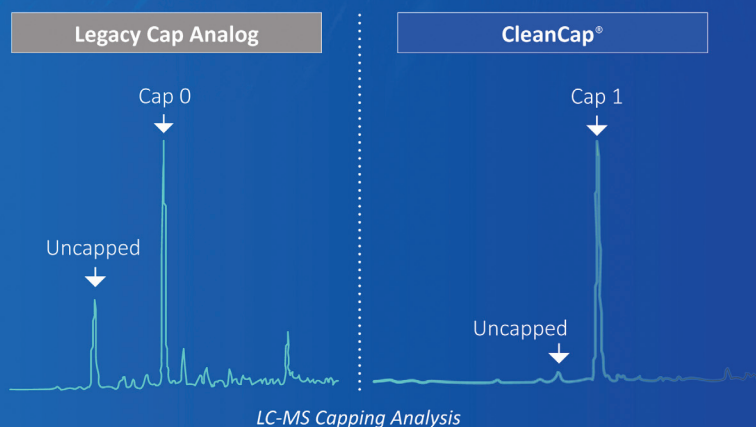
A REVOLUTION in Co-Transcriptional mRNA Capping

CleanCap® demonstrates superior performance versus legacy co-transcriptional capping methods

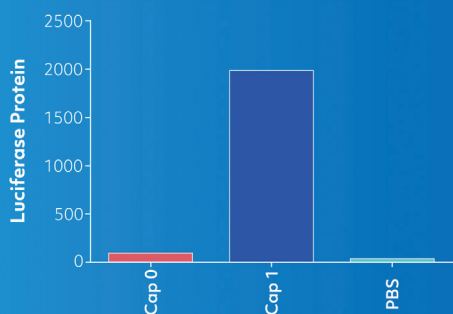
	Legacy Cap Analogs		CleanCap®	
Natural Cap	No	⊖	Yes	⊕
Immunogenic	Yes	⊖	Reduced Immunogenicity	⊕
Capping Efficiency	~70%	⊖	~95%	⊕
Yield/mL Transcription	1.5 mg/mL	⊖	4 mg/mL	⊕
Cost	3 X	⊖	1 X	⊕
Available Therapeutic Licenses	No	⊖	Yes	⊕

CleanCap®

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:



CleanCap® gives superior activity *in vivo* by mimicking a natural cap



Luciferase mRNA was formulated with Lunar Lipids and injected by tail vein into mice. At 6 hours, luciferase was measured by western blot in mouse liver. Data courtesy of Arcturus Therapeutics.

CleanCap® results in a natural Cap 1 structure that does not stimulate the innate immune system of the host, resulting in unparalleled efficiency *in vivo*. Legacy co-transcriptional capping methods yield a Cap 0, an immunogenic cap structure that is poorly expressed *in vivo*.

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