

**LISTING OF EXAMPLE FORMULATIONS FALLING WITHIN THE SCOPE OF
THE '435 PATENT CLAIMS**

Publication	Formulations	Gene/Gene Target	In vivo testing
<p>'435 patent <i>E.g.</i>, EX1001, Examples 2-11 (69:5-85:21), Figures 1-22</p>	<p>1.4% 57.1% 7.1% 34.3% PEG-cDMA, DLinDMA, DPPC, cholesterol PEG-cDMA, DLinDMA, DPPE, cholesterol PEG-cDMA, DLinDMA, DPPC, cholestanol PEG₅₀₀₀-cDMA, DLinDMA, DPPC, cholesterol PEG-cDMA, DODMA, DPPC, cholesterol PEG-cDSA, DLinDMA, DPPC, cholesterol 1.3% 53.3% 13.3% 32.0% PEG-cDMA, DLinDMA, DPPC, cholesterol 2% 70% 28% PEG-cDMA, DLinDMA, DPPC 1.6% 54.7% 43.8% PEG-cDMA, DLinDMA, DPPC 1.8% 70.2% 28.1% PEG-cDMA, DLinDMA, DPPC 1.5% 61.5% 36.9% PEG-cDMA, DLinDMA, cholesterol 1.4% 54.8% 43.8% PEG-cDMA, DLinDMA, cholesterol 2.0% 61.2% 36.7% PEG-cDMA, DLinDMA, cholesterol 1.8% 54.5% 43.6% PEG-cDMA, DLinDMA, cholesterol 1.3% 68.1% 30.6% PEG-cDMA, DLinDMA, cholesterol 1.2% 61.8% 37.1% PEG-cDMA, DLinDMA, cholesterol 1.7% 67.8% 30.5% PEG-cDMA, DLinDMA, cholesterol 1.4% 56.3% 42.3% PEG-cDMA, DLinDMA, cholesterol 1.9% 61.3% 36.8% PEG-cDMA, DLinDMA, cholesterol 1.8% 56.1% 42.1% PEG-cDMA, DLinDMA, cholesterol 1.3% 66.7% 32.0% PEG-cDMA, DLinDMA, cholesterol 1.2% 61.7% 37.0% PEG-cDMA, DLinDMA, cholesterol</p>	<p>ApoB Eg5 Plk-1 (siRNA)</p>	<p>Mouse</p>

	<p>1.7% 66.4% 31.9% PEG-cDMA, DLinDMA, cholesterol</p> <p>1.5% 61.5% 36.9% PEG-cDMA, DLinDMA, cholesterol</p>		
<p>'943 patent <i>E.g.</i>, EX2017, Examples 10-16 (150:1-160:62), Figures 1-17</p>	<p>1.4% 57.1% 7.1% 34.3% PEG-cDMA, DLinDMA, DPPC, cholesterol PEG-cDMA, DLin-K-C2-DMA, DPPC, cholesterol PEG-cDMA, DLin-K-C3-DMA, DPPC, cholesterol PEG-cDMA, DLin-KC4-DMA, DPPC, cholesterol PEG-cDMA, DLin-K6-DMA, DPPC, cholesterol PEG-cDMA, DLin-C2-DMA, DPPC, cholesterol PEG-cDMA, DLenDMA, DPPC, cholesterol PEG-cDMA, γ-DLenDMA, DPPC, cholesterol PEG-cDMA, DLin-K-DMA, DPPC, cholesterol PEG-cDMA, DLinMorph, DPPC, cholesterol PEG-cDMA, Linoley1/Oleyl DMA, DPPC, cholesterol PEG-cDMA, Linoley1/Phytanyl DMA, DPPC, cholesterol PEG-cDMA, Linoley1/Stearyl DMA, DPPC, cholesterol PEG-cDMA, Linoley/C6:1 DMA, DPPC, cholesterol PEG-cDMA, TLinDMA, DPPC, cholesterol PEG-cDMA, Linoley/C6:0 DMA, DPPC, cholesterol PEG-cDMA, C2-DPanDMA, DPPC, cholesterol PEG-cDMA, DLin-C2K-Pip, DPPC, cholesterol PEG-cDMA, DHep-C2K-DMA, DPPC, cholesterol PEG-cDMA, DPan-C2K-DMA, DPPC, cholesterol PEG-cDMA, DPan-C3K-DMA, DPPC, cholesterol PEG-cDMA, DPan-C1K6-DMA, DPPC, cholesterol PEG-cDMA, γ-DLen-C2K-DMA, DPPC, cholesterol PEG-cDMA, DLen-C2K-DMA, DPPC, cholesterol</p>	<p>Various ApoB siRNAs (see Table 5)</p>	<p>Mouse</p>
<p>'307 publication <i>E.g.</i>, EX2018, Examples 14, 16-19 (¶¶420- 423, 428-443), Figures 3-7</p>	<p>1.4% 57.1% 7.1% 34.3% PEG-cDMA, DLinDMA, DPPC, cholesterol PEG-cDMA, CP-DLinDMA, DPPC, cholesterol PEG-cDMA, CP-DLenDMA, DPPC, cholesterol PEG-cDMA, CP-γ-DLenDMA, DPPC, cholesterol PEG-cDMA, CP-DODMA, DPPC, cholesterol PEG-cDMA, CP-DPetroDMA, DPPC, cholesterol PEG-cDMA, C2-TLinDMA, DPPC, cholesterol PEG-cDMA, γ-LenMC3, DPPC, cholesterol PEG-cDMA, CP-γ-LenMC3, DPPC, cholesterol</p>	<p>ApoB (siRNA)</p>	<p>Mouse</p>

	<p>PEG-cDMA, LenMC3, DPPC, cholesterol</p> <p>PEG-cDMA, CP-LenMC3, DPPC, cholesterol</p> <p>PEG-cDMA, DLin-C2K-DMA, DPPC, cholesterol</p> <p>PEG-cDMA, DLin-M-C3-DMA, DPPC, cholesterol</p> <p>PEG-cDMA, D-γ-Len-C2K-DMA, DPPC, cholesterol</p> <p>PEG-cDMA, CP-γ-Len-C2K-DMA, DPPC, cholesterol</p> <p>PEG-cDMA, DLen-C2K-DMA, DPPC, cholesterol</p> <p>PEG-cDMA, CP-DLen-C2K-DMA, DPPC, cholesterol</p> <p>PEG-cDMA, MC2MC, DPPC, cholesterol</p> <p>PEG-cDMA, MC3 Ether, DPPC, cholesterol</p> <p>PEG-cDMA, Pan-MC3, DPPC, cholesterol</p> <p>PEG-cDMA, CP-MC3, DPPC, cholesterol</p> <p>PEG-cDMA, CP-C2K, DPPC, cholesterol</p>		
<p>Semple <i>E.g.</i>, EX2021, Abstract, Figure 3, Table 2, 177- 178</p>	<p>1.4% 57.1% 7.1% 34.3% PEG-cDMA, DLin-KC2-DMA, DPPC, cholesterol</p>	TTR (siRNA)	Mouse, rat, non- human primate
<p>'608 publication <i>E.g.</i>, EX2019, Tables 1-2, ¶¶42-44, 93- 104</p>	<p>1.5% 50% 10% 38.5% PEG-DMG, DLin-MC3-DMA, DSPC, cholesterol</p>	TTR (siRNA)	Human
<p>'537 publication <i>E.g.</i>, EX2047, 86, 109 (Table 3), 120 (Example 16), Figure 12</p>	<p>1.5% 60% 7.5% 31% PEG-DMG, Lipid A, DSPC, cholesterol</p> <p>1.5% 57.7% 7.5% 33.5% PEG-DMG, Lipid A, DSPC, cholesterol</p> <p>1.5% 55% 7.5% 36% PEG-DMG, Lipid A, DSPC, cholesterol</p>	Factor VII (siRNA)	Mouse
<p>Sedic <i>E.g.</i>, EX2048, Abstract, 2-3, 5- 8</p>	<p>1.5% 50% 10% 38.5% PEG-DMG, DLin-MC3-DMA, DSPC, cholesterol</p>	EPO (mRNA)	Rat, non- human primate
<p>'648 publication <i>E.g.</i>, EX2049, ¶¶16, 965-988</p>	<p>1.5% 50% 10% 38.5% PEG-cDOMG, DLin-KC2-DMA, DSPC, cholesterol</p>	Factor IX G-CSF (mRNA)	Mouse, non- human primate

Bahl <i>E.g.</i> , EX2050, Abstract, Figures 1-5, 1317, 1320, 1322	1.5% 50% 10% 38.5% PEG-lipid, ionizable lipid, DSPC, cholesterol	H10, H7 (mRNA)	Mouse, ferret, non- human primate, human
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