Synthetic oligonucleotides are purchased from IDT, Integrated DNA Technologies, Inc https://www.idtdna.com/pages

Primers

√You will be ordering the six LAMP primers listed in the table below.

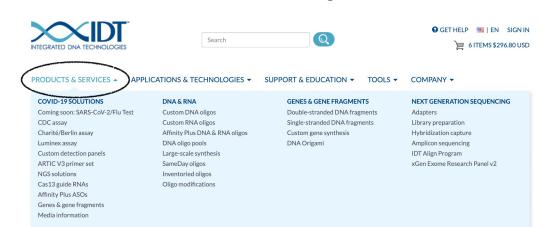
√Download an Excel spreadsheet with this information from the 'Resources' section of the UCCE-Napa LAMP assay website.

Name	Sequence	Scale	Purification	
p1825, LAMP.168-F3	GAATCGTTTGAATCGTAAGAGA	250 nmole DNA Oligo	Standard Desalting	
p1826, LAMP.168-B3	CAGACAAATAAATACGATTCCTTTC	250 nmole DNA Oligo	Standard Desalting	
p1827, LAMP.168-FIP	AATGACTCCTGCGGCTTCTTTCGTATTTTGGGTTCGAAGA	1 umole DNA Oligo	Standard Desalting	
p1828, LAMP.168-BIP	TCAAAGACGTCGTCTGGTTGTCATCATTACGTCCTCCACC	1 umole DNA Oligo	Standard Desalting	
p1842, LAMP.168-LB	GCTTTTAAAAACGACGTGT	250 nmole DNA Oligo	Standard Desalting	
p1857, LAMP.168-LF	TTCACGCCAACAACAAGT	250 nmole DNA Oligo	Standard Desalting	

STEP 1

√Go to the IDT DNA technologies page

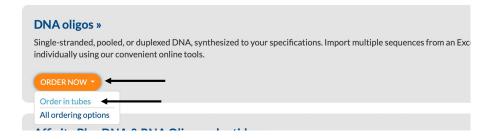
✓Under the Products and Services Tab, Click on Custom DNA Oligos



✓Under Custom DNA oligos, select "Order Now" and "Order in tubes"



IDT's long-standing reputation as a pioneer and leader in custom oligo manufacturing is primarily due to our proprietary our manufacturing process are designed and developed in-house, including specialized synthesizers that accommodate thigh-throughput automation systems that ensure fast turnaround times. We do not rely on third-party manufacturers foused for synthesis, allowing us to easily refine equipment and reagents as necessary. Our ability to control these variable unmatched in quality and consistency for use in routine and specialized applications.



STEP 3

√The Oligo Entry form will pop up. Select "Bulk Input"



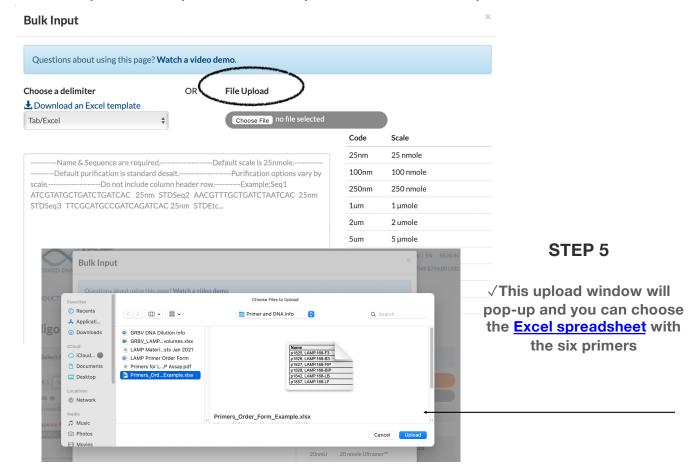


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Oligo Entry

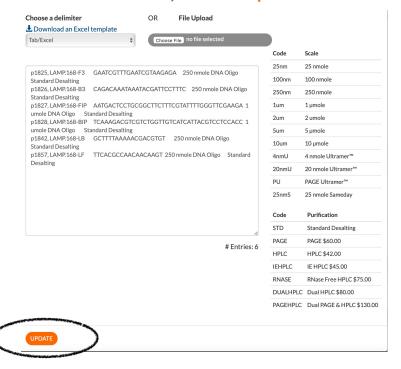


√Choose "File Upload" and upload the Excel spreadsheet with the six primers



√The information from the spreadsheet will populate the box.

Then, click on "Update"



This message will appear after select "Update". This is OK.

An invalid scale code was used. The default will be used.

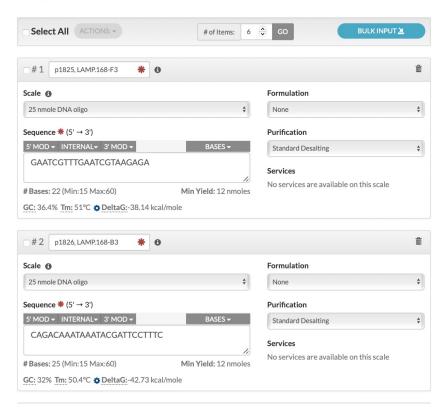
An invalid purification code was used. The default will be used.

STEP 7

√Close out of the "Bulk Input" Form.

Behind this form, you will see that the primer information from the Excel file has populated the entry form.

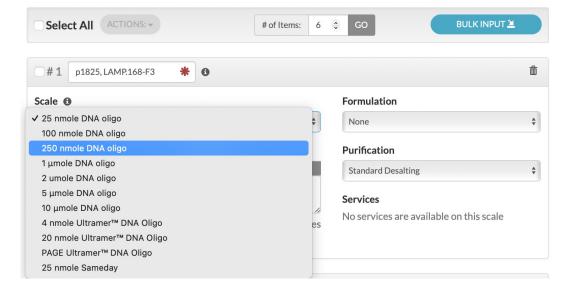
Oligo Entry



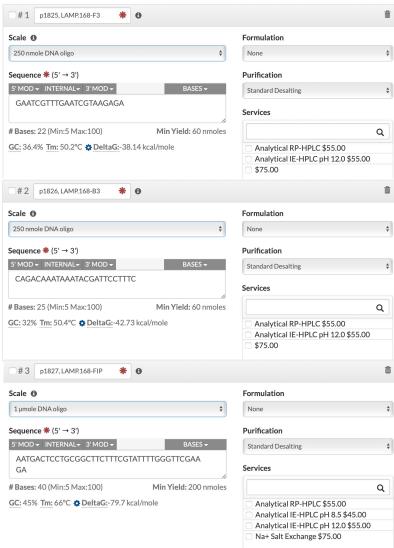
√Using the drop down list, change the scale for each of the primers according to the Excel spreadsheet

Below is an example of how to change the scale for Primer #1

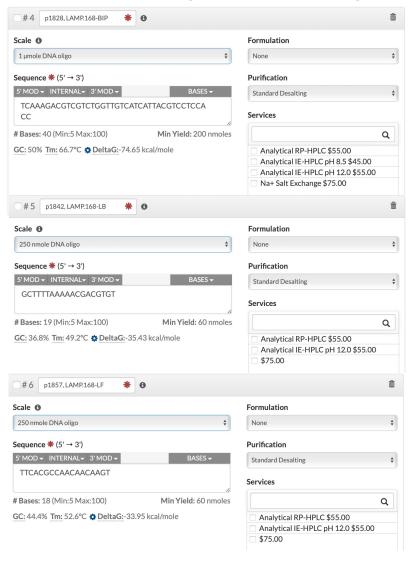
Oligo Entry



√The scales are changed for Primers 1 through 3

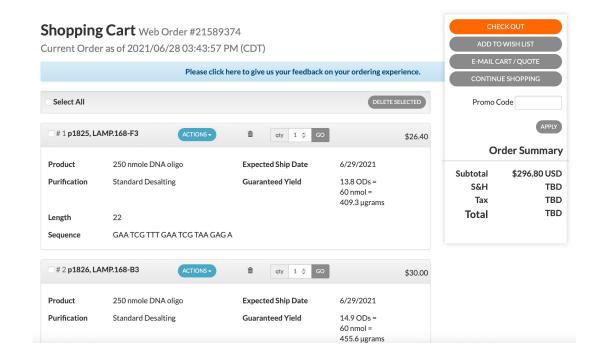


√The scales are changed for Primers 4 through 6



STEP 9

√Once all of the scales have been updated on the primers, add them to the Shopping Cart and Check Out



The Primers will be sent to you in a powder form and need to be resuspended by a lab.

Below is the protocol to be followed by the lab:

The LAMP primers from Integrated DNA Technologies need to be re-suspended in a buffer ('TE', 10mM Tris pH 8.0, 1.0 mM EDTA) to a concentration of 1mM. The 1mM oligonucleotides then need to be diluted in water to their respective concentrations to make up the LAMP primer stock. Aliquots of 12.5 μ l (micro liter) will be needed.

LAMP Set I					10X LAMF	10X LAMP primer mix	
			Final Concentration	Volume (μl)	Volume (μl)	Volume (μl)	Volume (μl)
			(μM)	of 1 mM stock	of 1 mM stock	of 1 mM stock	of 1 mM stock
				To make 200 μl	To make 200 μl	To make 1000 μl	To make 5000 μl
p1825	LAMP.168-F3	GAATCGTTTGAATCGTAAGAGA	0.2	0.4	1	2	10
p1826	LAMP.168-B3	CAGACAAATAAATACGATTCCTTTC	0.2	0.4	1	2	10
p1827	LAMP.168-FIP	AATGACTCCTGCGGCTTCTTTCGTATTTTGGGTTCGAAGA	1.6	3.2	8	16	80
p1828	LAMP.168-BIP	TCAAAGACGTCGTCTGGTTGTCATCATTACGTCCTCCACC	1.6	3.2	8	16	80
p1842	LAMP.168-LB	GCTTTTAAAAACGACGTGT	0.4	0.8	2	4	20
p1857	LAMP.168-LF	TTCACGCCAACAACAAGT	0.4	0.8	2	4	20
			Total	8.8	22	44	220
			Water to 200 μl	191.2			
			Water to 500 μl		478		
			Water to 1000 μl			956	
·			Water to 5000 μl				4780