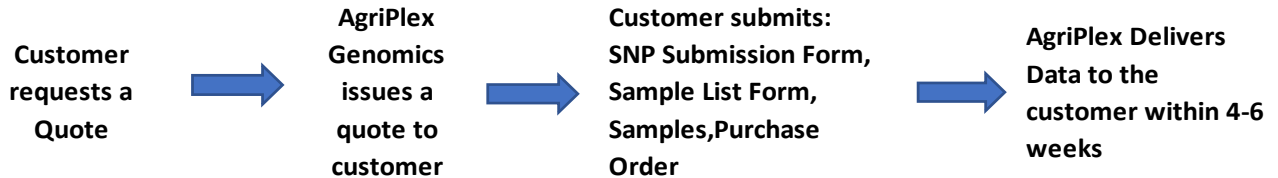




Genotyping at AgriPlex Genomics

The objective of this document is to outline the process of initiating a project with AgriPlex and to guide you through the requirements for submitting samples.

Project Flow Overview:



Sample Submission Guidelines:

You may send us your samples for analysis either as tissue samples, or as isolated DNA samples.

Please adhere to the following guidelines when submitting:

DNA Samples Submission:

- Submit DNA in WATER.
- Please submit identical volumes for each sample in a plate.
- **Leave well positions G12 and H12 EMPTY** for Agriplex Controls.
- **Do not fill** your 96 well DNA plates with more than 120 ul of DNA.
- **Do not fill** your 384 well DNA storage plates with more than 40 ul of DNA.

DNA Concentration and volume:

- Please provide the samples at a concentration of 5 ng/ul. If you are unable to provide samples at this concentration, please contact us.
- Please provide DNA samples of at least 70 ul – if you have a difficulty providing this volume, please contact us.
- If submitting lyophilized DNA, please provide the amount of water needed to rehydrate the samples for obtaining final concentration of 5 ng/ul.

Tissue Sample Submission:

- Please submit 2 tissue punches ~6mm in diameter each, per well.
- Please note that submitting more than the recommended tissue quantity will either add additional processing time to your project or may result in sample rejection.

Plasticware:

To ensure compatibility with our robotic platforms, and to ensure that your samples arrive safely (without leakage and cross-contamination), please submit samples in the following specified plasticware:



Plates for submitting DNA Samples:

DNA sample submission is required in one of the following:

- FrameStar 96 Well Plate, by 4titude, sold by Labsource, Cat. #: P97-405-CS
- twin.tec® microbiology PCR Plate 96, skirted, produced, and sold by Eppendorf, cat. #30129300
- Thermo Scientific™ PCR Plate, 96-well, low profile, skirted Cat.# AB-0800
- Greiner 384-well, PP, V-Bottom #781280
- Greiner masterblock 384-well, PP, Deep Well, V-Bottom #781270

Seals to use for submitting DNA samples:

- Peel Seal by 4titude, available through Labsource, cat. # 4ti-0520, P98-560-C
- Adhesive PCR Plate Foils, available through ThermoFisher Scientific. Cat # AB0626

Plasticware to use when submitting tissue samples:

- Abgene™ 96 Well 1.2mL Polypropylene Deep-well Storage Plate, through Thermo; cat. #AB0564:
<https://www.thermofisher.com/order/catalog/product/AB0564#/AB0564>
- 1.2ml 96-Well Deep-Well Plates, Clear, Square Well, V-bottom, by ISCI through Labsource, cat. # DP12VS-9-N
- Bruin 96 Well (Part# 11998667) AEO19387-REV08
- Corning® 96 well PP 1.2 mL cluster tubes:
<https://www.sigmaaldrich.com/US/en/product/sigma/cls4401>
- Thermo Scientific™ Nunc™ 96-Well Polypropylene DeepWell™ Storage Plates:
<https://www.fishersci.com/shop/products/nunc-1-3-2-0ml-deepwell-plates-shared-wall-technology/12565650>
- Labsource product # D75-572
- Axygen® 96-well 1.1 mL Polypropylene Cluster Tubes, 8-Tube Strip Format, NS, 12 Strips/Rack, 10 Racks/Pack, 5 Packs/Case: <https://ecatalog.corning.com/life-sciences/b2c/US/en/General-Labware/Tubes/Tubes-Storage/Compound-Library-Storage-%E2%80%93-Mini-Tube-System-%28MTS%29/p/MTS-11-8-C-R?pagePath=p/MTS-11-8-C-R>
- Matrix: <https://www.thermofisher.com/order/catalog/product/4247?SID=srch-srp-4247#/4247?SID=srch-srp-4247>
- Greiner Masterblock 384-deep well; REF:781270

Seals to use when submitting tissue samples:

- Axygen® 96-well Polyethylene Cluster Tube 8-Cap Strips, Nonsterile, 120 Strips/Pack, 5 Packs/Case: [https://ecatalog.corning.com/life-sciences/b2c/US/en/General-Labware/Tubes/Tubes-Storage/Compound-Library-Storage-%E2%80%93-Mini-Tube-System-\(MTS\)-Caps/p/MTS-8CP-C](https://ecatalog.corning.com/life-sciences/b2c/US/en/General-Labware/Tubes/Tubes-Storage/Compound-Library-Storage-%E2%80%93-Mini-Tube-System-(MTS)-Caps/p/MTS-8CP-C)
- Peel Seal by 4titude, available through Labsource, cat. # 4ti-0520, P98-560-CS:
<https://www.labsource.com/style/4titude-peel-heat-seal>
- Nunc: <https://www.thermofisher.com/order/catalog/product/4431-11?SID=srch-hj-4431-11#/4431-11?SID=srch-hj-4431-11>

Plate Labels:

Please adhere to the following guidelines when labeling your sample plates:



- Plate names should be between 1 and 30 characters in length; Use **ONLY:** alphanumeric characters, underscore, or dash.
- The plate names on the labels should match the plate names used in the Sample Submission Form.
- Labels should be printed (If printed labels are not available, please use a black sharpie and write the plate name on the plate).
- **Please label the plates on the east side of the plate.**

Shipping of plates:

- Please ship DNA sample plates frozen on dry ice (we recommend wrapping the plates with bubble wrap before placing them on the dry ice). This helps ensure that there will be no leakage or cross-contamination should there be an issue with the seal and that the integrity of the DNA will not be compromised.
- When shipping tissue, to ensure plates are not compromised during shipment, please place silicon mats (or, a piece of cardboard) between plates, wrap with rubber bands and place them in a plastic bag.

Note: Please avoid sending fresh tissue on dry ice.

- When shipping, please ensure that samples will arrive during weekdays (Monday – Friday.)
- Ship samples to: AgriPlex Genomics, 11000 Cedar Avenue, Suite 250, Cleveland, OH 44106, USA