

AgriGenomics Laboratory Services

Last Update: Nov. 21, 2013

Prices (US\$) subject to change. Shipping, insurance, taxes and handling charges may apply.

Plant DNA & RNA Extraction Services

Customer type				
Commercial	Unit (pricing)	Yield (typical)	Minimum order (at this rate)	Method

Manual DNA Extraction by AGL (supplies and technical labor)

\$18.33	Sample	varies	24	CTAB-(DNA), typically ~100ul @ 100+ ng/ul, \$20/supplies only; ~16 hrs. technical time
\$10.00	Sample	1–30 µg	24	DNeasy (Qiagen, manual, tube-based)-(DNA) ~\$4 each (~\$950/250); ~8 hr. technical time
\$7.50	Sample	1–30 µg	24	NucleoSpin Plant II (Macherey-Nagel, manual, tube-based)-(DNA) ~\$650/250 ~\$1.50; ~8 hr. technical time

Manual DNA Extraction by User (supplies only)

n/a	Sample	varies	1	CTAB-(DNA), typically ~100ul @ 100+ ng/ul, \$20/supplies only; ~16 hrs. technical time
n/a	Sample	1–30 µg	1	DNeasy (Qiagen, manual, tube-based)-(DNA) ~\$4 each (~\$950/250); ~8 hr. technical time
n/a	Sample	1–30 µg	1	NucleoSpin Plant II (Macherey-Nagel, manual, tube-based)-(DNA) ~\$150; ~8 hr. technical time

Robotic DNA Extraction

Supplies and labor included

\$12.00	Sample	1–15 µg	96	DNeasy 96 Plant Kit (6), for robot-based extraction, (Qiagen, plate-based)-(DNA) ~\$3 each; ~8 hr. technical time
\$9.50	Sample	1–15 µg	96	NucleoSpin® 96 Plant II (2, 4, 24- plate orders, ~\$250 each 96 plate)

Seed-based DNA Extraction by AGL

For MAS for many PCR-based markers, e.g. SNPs or SSRs (prices approximate; species dependent; non-destructive option also species-dependent)

Supplies and labor included

\$2.00	Sample	~ 1 ug (species dependent)	species dependent	Destructive seed-based; species dependent
\$2.10	Sample	~ 1 ug (species dependent)	species dependent	Non-destructive, with seed archived with maintenance of corresponding DNA and seed identities

Seed-based DNA Extraction by User for MAS with few PCR-based markers, e.g. SNPs or SSRs (prices approximate; species dependent; non-destructive option also species-dependent)

Supplies (labor provided by user)

n/a	Sample	~ 1 ug (species dependent)	0	Destructive seed-based (species dependent)
n/a	Sample	~ 1 ug (species dependent)	0	Non-destructive, with seed archived with maintenance of corresponding DNA and seed identities

RNA Extraction (Minimum purchase must include smallest kit available)

Supplies and labor included

\$45.00	Sample	up to 100 ug RNA	4 (but must buy kit)	RNA Spectrum (Sigma)-(RNA) & post DNase I tmt, 10- or 70-sample kits: ~\$5-10/sample
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\$45.00	Sample	25-60 ug / 30-100 ul	4 (but must buy kit)	RNeasy (Qiagen)-(RNA) 20- or 50-sample kits: ~\$150 or \$350
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GENOTYPING SERVICES (plants or seed) - including PCR (PCR at AGL)

SSR (PCR with non-labeled primers, capillary-based 2-5bp resolution)

User completes PCR; AGL determines amplicon sizes

\$2.00	Sample	N/a	12	eGene (Qiagen) 12-capillary fragment analyzer: \$1 each, 12-lane minimum
\$2.00	Sample	N/a	96	AATI 96-capillary DNA Fragment Analyzer \$1 each, 96-well plate (minimum)

SSRs - capillary-based amplicon size analysis 2-5bp resolution

Supplies and labor included

\$3.00	Sample	N/a	12	Size separation by 12-capillary eGene (Qiagen) fragment analyzer: \$1 each, 12-lane minimum
\$3.00	Sample	N/a	96	Size separation by 96-capillary AATI DNA Fragment Analyzer \$70/96-well plate (minimum)

SNP - KASPar assays, based on PCR with non-labeled primers

KASPar assay design, ordering and trial: primer costs + tech. time + supplies

Supplies and labor included

\$1.00	Sample	N/a	1 + plate cost	KASPar 96-plate: FrameStar® 96-well skirted PCR plate, white wells, black frame
\$0.52	Sample	N/a	96	KASPar 384-plate: FrameStar® 384-well skirted PCR plate, white wells, black frame

PCR & MISCELLANEOUS

Consultation in KASPar assay development, primer design and ordering

\$50.00	hour	N/a	0.50	Varies
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Use of Thermocyclers and Hydrocycler

Plates and contents provided by user

\$1.00	PCR Run	N/a	1	96-well
\$3.00	PCR Run	N/a	1	384-well
\$10.00	PCR Run	N/a	1	Hydrocycler (per run: up to 8 96-well or 16 384-well plates)

Plates

Hydrocycler (settings for sealer) and Pherastar plate reader (optical settings) require FrameStar plates

PCR (plates and contents provided by AGL, except DNA sample and primer)

Hydrocycler (settings for sealer) and Pherastar plate reader (optical settings) require FrameStar plates

\$6.00	Plate	N/a	1	FrameStar® 96-well skirted PCR plate, white wells, black frame
\$6.00	Plate	N/a	1	FrameStar® 384-well skirted PCR plate, white wells, black frame

Mastermixes

Mastermix

Inquire	sample	N/a	Inquire	Conventional (ABI AmpliTaq Gold or ~equivalent)
\$3.00	96-well plate	N/a	1	LGC KASPar Assay MasterMix per well at 96-well plate
\$3.00	384-well plate	N/a	1	LGC KASPar Assay MasterMix per well at 384-well plate