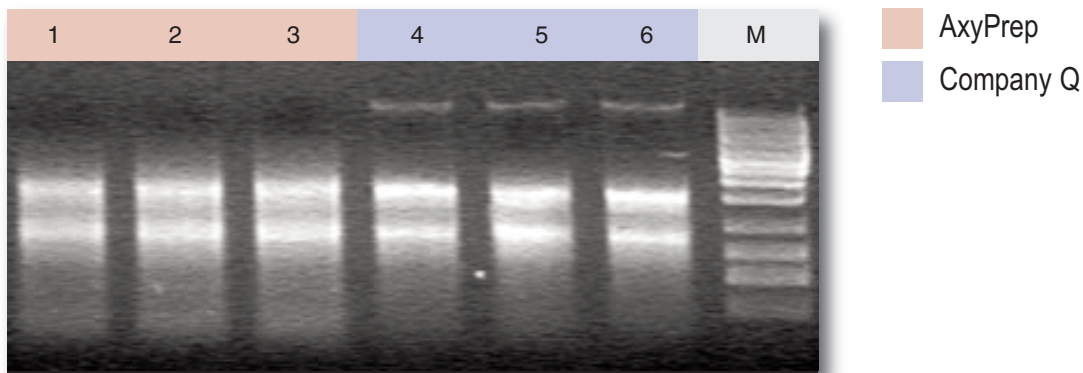


## AxyPrep Multisource RNA MiniPrep Kit (AP-MN-MS-RNA-50) compared to Company Q Total RNA Kit

**Starting material:** Mouse muscle

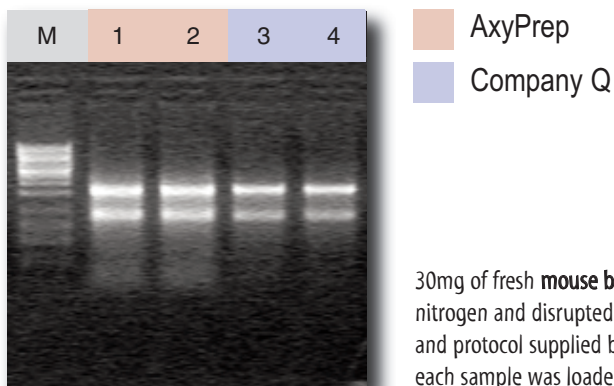


30mg of fresh **mouse muscle** was used for each prep. Tissue was flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 2µl of each sample was loaded per lane.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Axygen 1	0.903	0.446	2.02	144.48	14.48
Axygen 2	0.960	0.454	2.11	153.60	15.36
Axygen 3	0.933	0.434	2.15	149.28	14.93
Q 1	0.766	0.364	2.10	122.56	12.26
Q 2	0.912	0.439	2.08	145.92	14.59
Q 3	0.901	0.429	2.10	144.160	14.42

## AxyPrep Multisource RNA MiniPrep Kit (AP-MN-MS-RNA-50) compared to Company Q Total RNA Kit

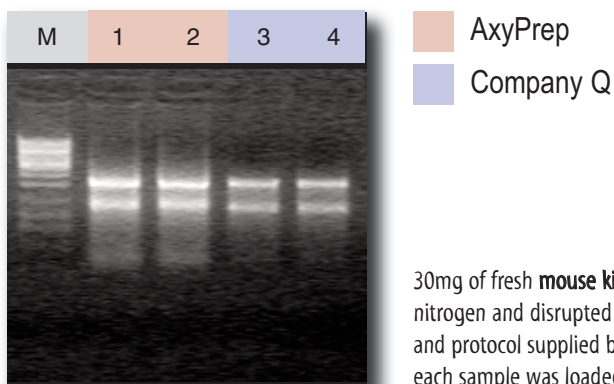
### Starting material: Mouse brain



30mg of fresh **mouse brain** was used for each prep. Tissue was flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 2µl of each sample was loaded in duplicate on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Axygen	0.795	0.405	1.96	381.6	38.2
Q	0.195	0.101	1.93	93.6	9.4

### Starting material: Mouse kidney

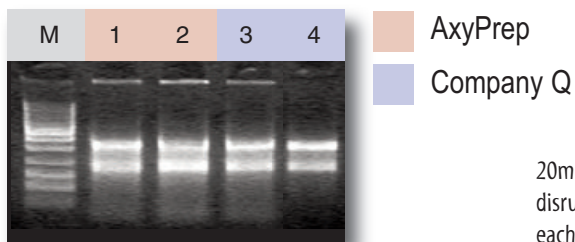


30mg of fresh **mouse kidney** was used for each prep. Tissue was flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 2µl of each sample was loaded in duplicate on gel..

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Axygen	1.612	0.79	2.04	773.76	77.38
Q	0.453	0.243	1.86	217.4	21.7

## AxyPrep Multisource RNA MiniPrep Kit (AP-MN-MS-RNA-50) compared to Company Q Total RNA Kit

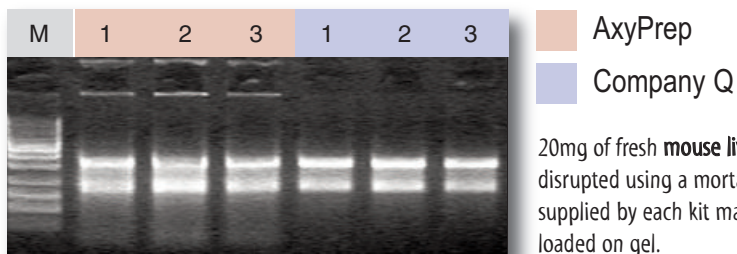
**Starting material:** Mouse liver



20mg of fresh **mouse liver** was used for each prep. Tissue was flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 2µl of each sample was loaded on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Axygen 1	1.183	0.596	1.98	1261.87	126.19
Axygen 2	1.203	0.592	2.03	1283.20	128.32
Q 1	0.951	0.428	2.22	1014.40	101.40
Q 2	0.942	0.424	2.22	1004.80	100.50

**Starting material:** Mouse liver

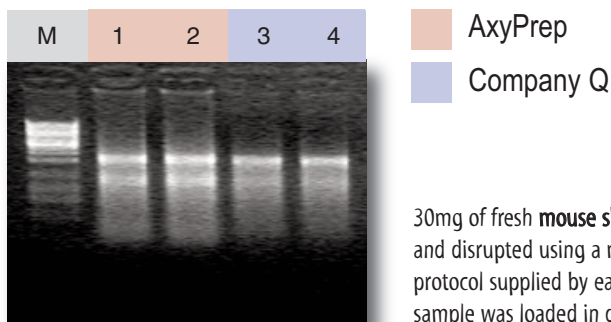


20mg of fresh **mouse liver** was used for each prep. Tissue was flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 1µl of each sample was loaded on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Axygen 1	1.773	0.791	2.24	1702.08	170.20
Axygen 2	1.902	0.848	2.24	1825.92	182.60
Axygen 3	1.768	0.787	2.25	1697.28	169.70
Q 1	1.621	0.782	2.07	1556.16	155.60
Q 2	1.502	0.678	2.22	1441.92	144.20
Q 3	1.158	0.522	2.22	1111.68	111.20

## AxyPrep Multisource RNA MiniPrep Kit (AP-MN-MS-RNA-50) compared to Company Q Total RNA Kit

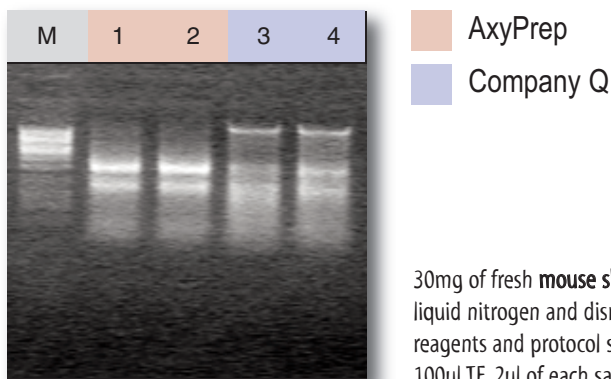
### Starting material: Mouse skin



30mg of fresh **mouse skin** was used for each prep. Tissue was flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100 $\mu$ l TE. 2 $\mu$ l of each sample was loaded in duplicate on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/ $\mu$ l)	Yield ( $\mu$ g)
Axygen	1.107	0.561	1.97	708.48	70.85
Q	0.704	0.35	2.01	267.8	26.8

### Starting material: Mouse spleen

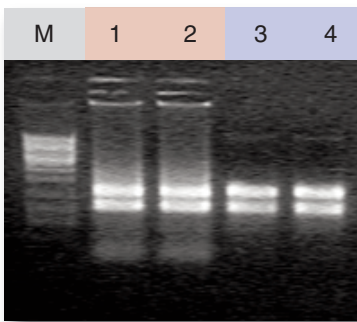


30mg of fresh **mouse skin and spleen** was used for each prep. Tissue was flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100 $\mu$ l TE. 2 $\mu$ l of each sample was loaded in duplicate on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/ $\mu$ l)	Yield ( $\mu$ g)
Axygen	1.367	0.648	2.11	656.16	65.62
Q	0.968	0.485	2	464.64	46.46

## AxyPrep Multisource RNA MiniPrep Kit (AP-MN-MS-RNA-50) compared to Company Q Total RNA Kit

### Starting material: E. coli

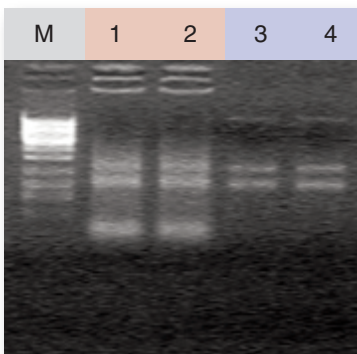


■ AxyPrep  
■ Company Q

2ml of *E. coli* culture ( $OD_{260} = 1.54$ ) was used with each kit type. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100 $\mu$ l TE. 1 $\mu$ l of each sample was loaded in duplicate on gel.

Kit	$OD_{260}$	$OD_{280}$	Ratio	Conc. (ng/ $\mu$ l)	Yield ( $\mu$ g)
Axygen	1.295	0.586	2.21	621.60	62.16
Q	1.033	0.521	1.98	495.84	49.58

### Starting material: Staphylococcus aureus



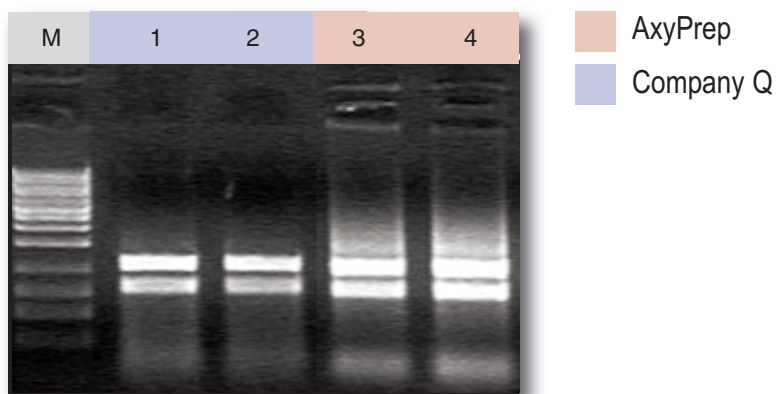
■ AxyPrep  
■ Company Q

2ml of *Staphylococcus aureus* ( $OD_{260} = 0.798$ ) was used with each kit type. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100 $\mu$ l TE. 7 $\mu$ l of each sample was loaded in duplicate on gel.

Kit	$OD_{260}$	$OD_{280}$	Ratio	Conc. (ng/ $\mu$ l)	Yield ( $\mu$ g)
Axygen	0.877	0.417	2.1	70.16	7.02
Q	0.744	0.361	2.06	59.52	5.95

## AxyPrep Multisource RNA MiniPrep Kit (AP-MN-MS-RNA-50) compared to Company Q Total RNA Kit

**Starting material: Yeast**

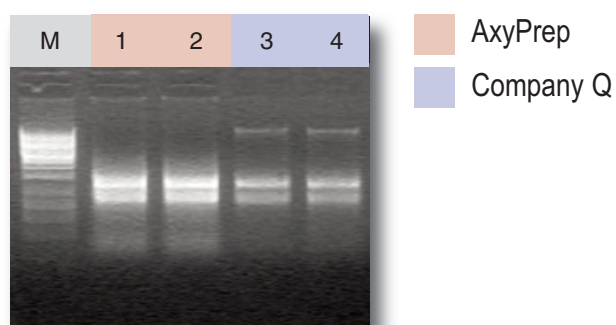


50mg of **yeast paste** was used with each kit type. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 2µl of each sample was loaded on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Q 1	0.672	0.304	2.21	161.28	16.13
Q 2	0.720	0.324	2.22	172.80	17.28
Axygen 1	0.942	0.446	2.11	301.44	30.14
Axygen 2	1.008	0.467	2.16	322.56	32.26

## AxyPrep Multisource RNA MiniPrep Kit (AP-MN-MS-RNA-50) compared to Company Q Total RNA Kit

**Starting material:** Flower petals

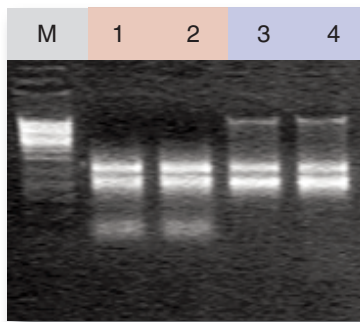


50mg of **Flower petals** was processed with each kit type. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 2µl of each sample was loaded in duplicate on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Axygen	0.729	0.35	2.08	349.9	35.0
Q	0.362	0.173	2.09	173.8	17.4

## AxyPrep Multisource RNA MiniPrep Kit (AP-MN-MS-RNA-50) compared to Company Q Total RNA Kit

### Starting material: Corn leaves

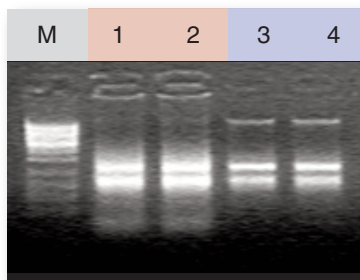


AxyPrep  
 Company Q

50mg of **Corn leaves** was processed with each kit type. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 4µl of each sample was loaded in duplicate on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Axygen	0.54	0.261	2.07	219.2	21.9
Q	0.431	0.213	2.02	189.4	18.9

### Starting material: Cabbage



AxyPrep  
 Company Q

50mg of **Cabbage** was processed with each kit type. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100µl TE. 4µl of each sample was loaded in duplicate on gel.

Kit	OD <sub>260</sub>	OD <sub>280</sub>	Ratio	Conc. (ng/µl)	Yield (µg)
Axygen	0.691	0.345	2.00	221.12	22.11
Q	0.311	0.168	1.85	99.52	9.95