

# University of California, San Francisco Price List

2016

**RESEARCH MODELS  
AND SERVICES**

  
charles river

# CONTACT US

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*If you are unsure about whom to contact at Charles River, we recommend that you start with our Customer Support Center. Our representatives are available from 6 a.m.–6 p.m. ET Monday through Friday to field any questions you may have, or to direct inquiries to the correct contact or department. For all correspondence: Charles River, 251 Ballardvale Street, Wilmington, MA 01887*

## Customer Support Center

Phone: 1.877.CRIVER1 (1.877.274.8371)  
Email: [askcharlesriver@crl.com](mailto:askcharlesriver@crl.com)

Our expert technical group, including our highly qualified professional staff of veterinarians and doctorate-level scientists, can assist you in areas such as laboratory animal science, biology, husbandry, surgery and health issues.

Specifically, we can assist you with:

- Information regarding the Charles River portfolio
- Scheduling sample submissions
- Coordinating delivery of your complimentary shipping materials
- Performing literature searches
- Running and interpreting results reports
- Answering questions about specific animal models
- Coordinating custom orders, including surgical procedures and genetically modified or preconditioned research models

## Research Models Customer Service Department

Phone: 1.800.LAB.RATS (1.800.522.7287)  
Fax: 1.800.992.7329

Our customer service representatives strive to make the research model order and shipment process as easy as possible for you. When you call our Customer Service Department, our automated phone system directs your call (by area code) to your customer service team. This team concept lets you routinely speak with people who know you and your account. We offer five ways for you to order research models: phone, fax, mail, Electronic Data Interchange (EDI) and online ordering.

Specifically, we can assist you with:

- Animal orders
- Model availability
- Pricing and shipping details

## Laboratory Testing Management® (LTM™) Help Desk

Phone: 1.781.222.6701  
Email: [LTM@crl.com](mailto:LTM@crl.com)

LTM™ is our online, interactive order entry and results management system that centralizes your health and genetic testing programs into one virtual location. Use LTM™ to search for tests and sample submission information, create and track orders, as well as archive and trend your testing results. Visit [www.criver.com/lrm](http://www.criver.com/lrm) for details.

The LTM™ Help Desk can assist you with:

- Online ordering and sample shipping
- Results retrieval and interpretation
- Account management and troubleshooting
- One-on-one or group demonstrations and training
- Creating custom templates and reports
- Summarizing and trending data

## CRATE & FREIGHT

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

### 2016 CHARLES RIVER LIST PRICE

#### Crate Charges

Filtered shipping container (Sew Easy™)	18.20
Gnoto-safe™ shipping container	34.30

### 2016 CUSTOMER PRICE

Filtered shipping container (Sew Easy™)	16.38	10% discount
Gnoto-safe™ shipping container	30.87	10% discount

#### Freight Charges

Air Freight	242.15
Truck Freight	39.50
Truck Freight from Hollister & San Diego	39.50
Local Truck Freight	13.80
Rabbit Air Freight	242.15

Air Freight	242.15	
Truck Freight	39.50	
Truck Freight	13.80	65% discount
Local Truck Freight	10.35	25% discount
Rabbit Air Freight	242.15	

**OUTBRED RATS**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**CD<sup>®</sup> IGS Rats** *when ordering, specify CD*

STRAIN CODE: 001

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	15.50	15.55
51-75	19.65	20.60
76-100	24.20	25.20
101-125	27.45	28.55
126-150	31.70	35.00
151-175	33.70	38.30
176-200	39.30	41.25
201-225	41.95	43.70
226-250	45.60	47.45
251-275	49.10	53.50
276-300	51.20	
301-325	54.15	
326-350	59.45	
351 plus	Prices upon request	
Retired breeders	39.40	38.30
Littermates 21 days old only	29.90	29.90
Lactating rat with litter		140.70
Timed pregnant		131.15
Untimed pregnant		110.00

**2016 CUSTOMER PRICE**

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	13.33	13.37
51-75	16.90	17.72
76-100	20.81	21.67
101-125	23.61	24.55
126-150	27.26	30.10
151-175	28.98	32.94
176-200	33.80	35.48
201-225	36.08	37.58
226-250	39.22	40.81
251-275	42.23	46.01
276-300	44.03	
301-325	46.57	
326-350	51.13	
351 plus	Prices upon request	
Retired breeders	33.88	32.94
Littermates 21 days old only	25.71	25.71
Lactating rat with litter		121.00
Timed pregnant		112.79
Untimed pregnant		94.60

\*Estimated age

**Sprague Dawley<sup>®</sup> Rats** *when ordering, specify SAS SD*

STRAIN CODE: 400

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	14.80	14.50
51-75	17.00	17.75
76-100	19.95	21.15
101-125	22.85	23.20
126-150	24.60	27.05
151-175	27.80	29.60
176-200	31.00	32.65
201-225	34.60	35.45
226-250	37.05	38.05
251-275	38.85	
276-300	42.25	
301-325	44.05	
326-plus	Prices upon request	
Retired Breeder	31.05	30.45
Littermates (21 days old only)	17.65	17.65
Lactating Rat with Litter		102.35
Timed Pregnant		98.55
Untimed Pregnant		78.85

**No discount**

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	14.80	14.50
51-75	17.00	17.75
76-100	19.95	21.15
101-125	22.85	23.20
126-150	24.60	27.05
151-175	27.80	29.60
176-200	31.00	32.65
201-225	34.60	35.45
226-250	37.05	38.05
251-275	38.85	
276-300	42.25	
301-325	44.05	
326-plus	Prices upon request	
Retired Breeder	31.05	30.45
Littermates (21 days old only)	17.65	17.65
Lactating Rat with Litter		102.35
Timed Pregnant		98.55
Untimed Pregnant		78.85

\*Estimated age

**OUTBRED RATS**

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**2016 CHARLES RIVER LIST PRICE**

**CD® Hairless Rats**

STRAIN CODE: 184

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	54.35	54.35
22-28	58.95	58.95
29-35	62.50	62.50
36-42	66.75	66.75
43-49	70.35	70.35
50-56	75.65	75.65
57-63	80.75	80.75
64-70	85.70	85.70
71-77	93.80	93.80
78-84	101.55	101.55
85 Plus	Prices upon request	
Retired breeders	64.00	63.35
Lactating rat with litter		252.80
Untimed pregnant		218.55

\*Estimated age

**2016 CUSTOMER PRICE**

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	46.74	46.74
22-28	50.70	50.70
29-35	53.75	53.75
36-42	57.41	57.41
43-49	60.50	60.50
50-56	65.06	65.06
57-63	69.45	69.45
64-70	73.70	73.70
71-77	80.67	80.67
78-84	87.33	87.33
85 Plus	Prices upon request	
Retired breeders	55.04	54.48
Lactating rat with litter		217.41
Untimed pregnant		187.95

\*Estimated age

**Long-Evans Rats**

STRAIN CODE: 006

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	19.45	19.75
51-75	22.95	24.55
76-100	27.75	29.10
101-125	31.10	32.05
126-150	33.95	35.10
151-175	36.15	40.80
176-200	40.00	43.15
201-225	42.75	47.60
226-250	48.55	51.55
251-275	53.10	58.50
276-300	55.85	
301-325	59.40	
326 plus	Prices upon request	
Retired breeders	40.30	39.95
Littermates 21 days old only	31.15	31.15
Lactating rat with litter		151.50
Timed pregnant		140.60
Untimed pregnant		115.25

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	16.73	16.99
51-75	19.74	21.11
76-100	23.87	25.03
101-125	26.75	27.56
126-150	29.20	30.19
151-175	31.09	35.09
176-200	34.40	37.11
201-225	36.77	40.94
226-250	41.75	44.33
251-275	45.67	50.31
276-300	48.03	
301-325	51.08	
326 plus	Prices upon request	
Retired breeders	34.66	34.36
Littermates 21 days old only	26.79	26.79
Lactating rat with litter		130.29
Timed pregnant		120.92
Untimed pregnant		99.12

\*Estimated age

**Sentinel Rats (Isolator-Maintained)**

STRAIN CODE: 118

Age in Days*	FEMALE
	Price
28-42	36.40

\*Estimated age

Age in Days*	FEMALE
	Price
28-42	31.30

\*Estimated age

**OUTBRED RATS**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**Wistar Rats**

STRAIN CODE: 003

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	15.55	15.90
51-75	19.70	21.20
76-100	23.75	25.15
101-125	27.65	29.20
126-150	30.90	33.10
151-175	32.85	36.85
176-200	37.90	39.70
201-225	41.05	42.30
226-250	44.50	45.65
251-275	48.05	
276-300	50.25	
301-325	51.75	
326 plus	Prices upon request	
Retired breeders	38.85	38.50
Littermates 21 days old only	29.35	29.35
Lactating rat with litter		137.90
Timed pregnant		128.65
Untimed pregnant		107.60

**2016 CUSTOMER PRICE**

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	13.37	13.67
51-75	16.94	18.23
76-100	20.43	21.63
101-125	23.78	25.11
126-150	26.57	28.47
151-175	28.25	31.69
176-200	32.59	34.14
201-225	35.30	36.38
226-250	38.27	39.26
251-275	41.32	
276-300	43.22	
301-325	44.51	
326 plus	Prices upon request	
Retired breeders	33.41	33.11
Littermates 21 days old only	25.24	25.24
Lactating rat with litter		118.59
Timed pregnant		110.64
Untimed pregnant		92.54

\*Estimated age

**Wistar Han IGS Rats**

STRAIN CODE: 273

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	16.45	16.50
51-75	21.00	22.70
76-100	25.50	27.05
101-125	29.75	30.95
126-150	32.45	35.80
151-175	33.95	38.20
176-200	38.50	41.85
201-225	42.30	44.90
226-250	46.75	
251-275	49.35	
276-300	51.90	
301-325	56.05	
326 plus	Prices upon request	
Retired breeders	40.60	39.05
Littermates 21 days old only	30.80	30.80
Lactating rat with litter		144.70
Timed pregnant		134.90
Untimed pregnant		112.90

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	14.15	14.19
51-75	18.06	19.52
76-100	21.93	23.26
101-125	25.59	26.62
126-150	27.91	30.79
151-175	29.20	32.85
176-200	33.11	35.99
201-225	36.38	38.61
226-250	40.21	
251-275	42.44	
276-300	44.63	
301-325	48.20	
326 plus	Prices upon request	
Retired breeders	34.92	33.58
Littermates 21 days old only	26.49	26.49
Lactating rat with litter		124.44
Timed pregnant		116.01
Untimed pregnant		97.09

\*Estimated age

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

2016 CHARLES RIVER LIST PRICE

Brown Norway Rats *when ordering, specify BN*

STRAIN CODE: 091

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	43.30	43.95
22-28	43.30	43.95
29-35	49.40	55.35
36-42	60.20	66.80
43-49	69.05	80.85
50-56	84.15	80.85
57-63	87.55	94.45
64-70	99.50	94.45
71-77	105.35	121.90
78 plus	Prices upon request	
Retired breeders	47.85	46.05
Littermates 21 days old only	49.00	49.00
Lactating rat with litter		275.00
Timed pregnant		229.15
Untimed pregnant		210.25

\*Estimated age

2016 CUSTOMER PRICE

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	37.24	37.80
22-28	37.24	37.80
29-35	42.48	47.60
36-42	51.77	57.45
43-49	59.38	69.53
50-56	72.37	69.53
57-63	75.29	81.23
64-70	85.57	81.23
71-77	90.60	104.83
78 plus	Prices upon request	
Retired breeders	41.15	39.60
Littermates 21 days old only	42.14	42.14
Lactating rat with litter		236.50
Timed pregnant		197.07
Untimed pregnant		180.82

\*Estimated age

Copenhagen Rats

STRAIN CODE: 286

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	52.30	49.65
22-28	56.40	56.20
29-35	60.10	63.40
36-42	70.45	80.05
43-49	80.15	99.50
50-56	91.20	131.05
57-63	95.20	
64-70	102.10	
71 plus	Prices upon request	
Retired breeders	48.40	46.60
Littermates 21 days old only	54.05	54.05
Lactating rat with litter		325.60
Untimed pregnant		238.65

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	44.98	42.70
22-28	48.50	48.33
29-35	51.69	54.52
36-42	60.59	68.84
43-49	68.93	85.57
50-56	78.43	112.70
57-63	81.87	
64-70	87.81	
71 plus	Prices upon request	
Retired breeders	41.62	40.08
Littermates 21 days old only	46.48	46.48
Lactating rat with litter		280.02
Untimed pregnant		205.24

\*Estimated age

Fischer Rats *when ordering, specify CDF™*

STRAIN CODE: 002

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	29.30	29.85
22-28	30.30	33.00
29-35	37.50	36.25
36-42	44.80	44.35
43-49	49.00	49.55
50-56	55.15	59.30
57-63	58.65	59.30
64 plus	Prices upon request	
Retired breeders	43.30	42.45
Littermates 21 days old only	45.80	45.80
Lactating rat with litter		242.85
Timed pregnant		197.40
Untimed pregnant		177.60

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	25.20	25.67
22-28	26.06	28.38
29-35	32.25	31.18
36-42	38.53	38.14
43-49	42.14	42.61
50-56	47.43	51.00
57-63	50.44	51.00
64 plus	Prices upon request	
Retired breeders	37.24	36.51
Littermates 21 days old only	39.39	39.39
Lactating rat with litter		208.85
Timed pregnant		169.76
Untimed pregnant		152.74

\*Estimated age

## INBRED RATS

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

### 2016 CHARLES RIVER LIST PRICE

#### F344 Rats *when ordering, specify SAS FISCH*

STRAIN CODE: 403

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	27.20	27.95
22-28	29.10	30.95
29-35	33.15	30.95
36-42	36.90	34.95
43-49	42.05	40.00
50-56	52.70	44.70
57-63	54.35	44.70
64 plus	Prices upon request	
Retired breeders	39.10	38.00
Littermates 21 days old only	62.10	62.10
Lactating rat with litter		240.85
Timed pregnant		114.95
Untimed pregnant		93.15

\*Estimated age

### 2016 CUSTOMER PRICE

**No discount**

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	27.20	27.95
22-28	29.10	30.95
29-35	33.15	30.95
36-42	36.90	34.95
43-49	42.05	40.00
50-56	52.70	44.70
57-63	54.35	44.70
64 plus	Prices upon request	
Retired breeders	39.10	38.00
Littermates 21 days old only	62.10	62.10
Lactating rat with litter		240.85
Timed pregnant		114.95
Untimed pregnant		93.15

\*Estimated age

#### Lewis Rats

STRAIN CODE: 004

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	32.70	31.60
22-28	37.20	35.95
29-35	41.65	40.70
36-42	44.00	45.10
43-49	53.45	52.00
50-56	62.45	56.05
57-63	66.95	61.80
64-70	70.40	61.80
71 plus	Prices upon request	
Retired breeders	43.10	41.50
Littermates 21 days old only	42.60	42.60
Lactating rat with litter		202.30
Timed pregnant		174.05
Untimed pregnant		135.55

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	28.12	27.18
22-28	31.99	30.92
29-35	35.82	35.00
36-42	37.84	38.79
43-49	45.97	44.72
50-56	53.71	48.20
57-63	57.58	53.15
64-70	60.54	53.15
71 plus	Prices upon request	
Retired breeders	37.07	35.69
Littermates 21 days old only	36.64	36.64
Lactating rat with litter		173.98
Timed pregnant		149.68
Untimed pregnant		116.57

\*Estimated age



**DISEASE AND TRANSLATIONAL RATS**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**Dahl/Salt Sensitive Rats (Dahl/SS)**

STRAIN CODE: 320

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	104.45	102.45
29-35	111.85	109.70
36-42	117.70	115.45
43-49	124.90	122.55
50-56	130.45	127.95
57 plus	Prices upon Request	
Timed Pregnant	251.75	

\*Estimated age

**SS-13<sup>BN</sup> Rats (control for the Dahl/SS)**

STRAIN CODE: 334

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	110.40	104.40
29-35	118.35	111.90
36-42	124.45	117.65
43-49	132.15	124.95
50-56	138.00	130.50
57 plus	Prices upon Request	
Timed Pregnant	256.75	

\*Estimated age

**Obese Prone Rats when ordering, specify OP-CD**

STRAIN CODE: 463

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	104.75	105.10
29-35	132.85	130.15
36-42	159.75	161.20
43-49	188.35	192.55
50-56	216.85	219.15
57-63	249.00	249.45
64-70	283.55	285.25
71 plus	Prices upon Request	

\*Estimated age

**Obese Resistant Rats when ordering, specify OR-CD**

STRAIN CODE: 462

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	104.75	105.10
29-35	132.85	130.15
36-42	159.75	161.20
43-49	188.35	192.55
50-56	216.85	219.15
57-63	249.00	249.45
64-70	283.55	285.25
71 plus	Prices upon Request	

\*Estimated age

**2016 CUSTOMER PRICE**

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	104.45	102.45
29-35	111.85	109.70
36-42	117.70	115.45
43-49	124.90	122.55
50-56	130.45	127.95
57 plus	Prices upon Request	
Timed Pregnant	251.75	

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	110.40	104.40
29-35	118.35	111.90
36-42	124.45	117.65
43-49	132.15	124.95
50-56	138.00	130.50
57 plus	Prices upon Request	
Timed Pregnant	256.75	

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	104.75	105.10
29-35	132.85	130.15
36-42	159.75	161.20
43-49	188.35	192.55
50-56	216.85	219.15
57-63	249.00	249.45
64-70	283.55	285.25
71 plus	Prices upon Request	

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	104.75	105.10
29-35	132.85	130.15
36-42	159.75	161.20
43-49	188.35	192.55
50-56	216.85	219.15
57-63	249.00	249.45
64-70	283.55	285.25
71 plus	Prices upon Request	

\*Estimated age

## DISEASE AND TRANSLATIONAL RATS

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

### 2016 CHARLES RIVER LIST PRICE

#### PCK Rats

STRAIN CODE: 453

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	136.30	133.70
29-35	146.20	143.45
36-42	153.60	150.70
43-49	163.15	160.10
50-56	170.20	167.00
57 plus	Prices upon Request	

\*Estimated age

#### SHHF Rats

STRAIN CODE: 373 (Obese), 374 (Lean +/-?)

Age in Days*	MALE PRICE		FEMALE PRICE	
	Obese	Lean +/-?	Obese	Lean +/-?
Up to 42	425.45	184.45	301.05	148.70
43-49	436.65	198.05	314.05	161.60
50-56	452.65	211.70	326.85	174.40
57-63	466.30	225.40	339.85	187.25
64-70	479.95	238.95	352.80	200.15
71 plus	Prices upon request			

\*Estimated age

#### SHR Rats

STRAIN CODE: 007

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	60.80	58.50
22-28	63.35	61.40
29-35	68.40	65.85
36-42	75.85	75.75
43-49	80.95	80.90
50-56	88.85	88.75
57-63	97.40	96.80
64-70	106.10	105.45
71-77	116.65	109.75
78-84	127.95	120.25
85-91	141.25	132.80
92-98	150.15	141.20
99-105	165.25	155.45
106 Plus	Prices upon request	
Retired breeders	89.25	85.95
Littermates 21 days old only	94.10	94.10
Lactating rat with litter		394.40
Timed pregnant		308.05
Untimed pregnant		288.75

\*Estimated age

### 2016 CUSTOMER PRICE

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	136.30	133.70
29-35	146.20	143.45
36-42	153.60	150.70
43-49	163.15	160.10
50-56	170.20	167.00
57 plus	Prices upon Request	

\*Estimated age

Age in Days*	MALE PRICE		FEMALE PRICE	
	Obese	Lean +/-?	Obese	Lean +/-?
Up to 42	425.45	184.45	301.05	148.70
43-49	436.65	198.05	314.05	161.60
50-56	452.65	211.70	326.85	174.40
57-63	466.30	225.40	339.85	187.25
64-70	479.95	238.95	352.80	200.15
71 plus	Prices upon request			

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	60.80	58.50
22-28	63.35	61.40
29-35	68.40	65.85
36-42	75.85	75.75
43-49	80.95	80.90
50-56	88.85	88.75
57-63	97.40	96.80
64-70	106.10	105.45
71-77	116.65	109.75
78-84	127.95	120.25
85-91	141.25	132.80
92-98	150.15	141.20
99-105	165.25	155.45
106 Plus	Prices upon request	
Retired breeders	89.25	85.95
Littermates 21 days old only	94.10	94.10
Lactating rat with litter		394.40
Timed pregnant		308.05
Untimed pregnant		288.75

\*Estimated age

**DISEASE AND TRANSLATIONAL RATS**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**WKY Rats** (control for the SHR)

STRAIN CODE: 008

Age in Days*	MALE		FEMALE	
	Price		Price	
Up to 21	48.70		47.75	
22-28	53.85		52.85	
29-35	58.70		57.60	
36-42	62.15		60.95	
43-49	68.10		69.95	
50-56	82.15		80.60	
57-63	88.30		86.65	
64-70	97.95		96.10	
71-77	104.60		100.80	
78-84	117.35		113.05	
85-91	128.50		123.80	
92-98	139.90		134.75	
99-105	152.75		147.20	
106 Plus	Prices upon request			
Retired breeders	87.60		85.95	
Littermates 21 days old only	92.35		92.35	
Lactating rat with litter			394.40	
Timed pregnant			308.05	
Untimed pregnant			288.75	

\*Estimated age

**2016 CUSTOMER PRICE**

Age in Days*	MALE		FEMALE	
	Price		Price	
Up to 21	48.70		47.75	
22-28	53.85		52.85	
29-35	58.70		57.60	
36-42	62.15		60.95	
43-49	68.10		69.95	
50-56	82.15		80.60	
57-63	88.30		86.65	
64-70	97.95		96.10	
71-77	104.60		100.80	
78-84	117.35		113.05	
85-91	128.50		123.80	
92-98	139.90		134.75	
99-105	152.75		147.20	
106 Plus	Prices upon request			
Retired breeders	87.60		85.95	
Littermates 21 days old only	92.35		92.35	
Lactating rat with litter			394.40	
Timed pregnant			308.05	
Untimed pregnant			288.75	

\*Estimated age

**Stroke Prone Rats** when ordering, specify SHRSP

STRAIN CODE: 324

Age in Days*	MALE		FEMALE	
	Price		Price	
Up to 28	114.15		107.90	
29-35	123.45		116.70	
36-42	136.80		129.35	
43-49	145.90		137.95	
50-56	160.30		151.55	
57 plus	Prices upon request			

\*Estimated age

Age in Days*	MALE		FEMALE	
	Price		Price	
Up to 28	114.15		107.90	
29-35	123.45		116.70	
36-42	136.80		129.35	
43-49	145.90		137.95	
50-56	160.30		151.55	
57 plus	Prices upon request			

\*Estimated age

**ZDF Rats**

STRAIN CODE: 370 (Obese), 380 (Lean fa/+), 371 (Lean +/-)

Age in Days*	MALE PRICE		
	Obese	Lean fa/+	Lean +/-
Up to 42	368.50	188.75	149.85
43-49	380.75	201.85	162.95
50-56	393.25	214.85	175.95
57-63	405.75	227.75	188.75
64-70	418.05	240.95	201.85
71 plus	Prices upon request		

\*Estimated age

Age in Days*	MALE PRICE		
	Obese	Lean fa/+	Lean +/-
Up to 42	368.50	188.75	149.85
43-49	380.75	201.85	162.95
50-56	393.25	214.85	175.95
57-63	405.75	227.75	188.75
64-70	418.05	240.95	201.85
71 plus	Prices upon request		

\*Estimated age

Age in Days*	FEMALE PRICE		
	Obese	Lean fa/+	Lean +/-
Up to 42	262.95	188.75	149.85
43-49	275.35	201.85	162.95
50-56	287.90	214.85	175.95
57-63	300.30	227.75	188.75
64-70	312.65	240.95	201.85
71 plus	Prices upon request		

Age in Days*	FEMALE PRICE		
	Obese	Lean fa/+	Lean +/-
Up to 42	262.95	188.75	149.85
43-49	275.35	201.85	162.95
50-56	287.90	214.85	175.95
57-63	300.30	227.75	188.75
64-70	312.65	240.95	201.85
71 plus	Prices upon request		

## DISEASE AND TRANSLATIONAL RATS

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

### 2016 CHARLES RIVER LIST PRICE

#### ZSF1 Rats

STRAIN CODE: 378 (Obese), 379 (Lean +/-)

Age in Days*	MALE PRICE		FEMALE PRICE	
	Obese	Lean +/-	Obese	Lean +/-
Up to 42	369.50	144.95	267.30	142.85
43-49	383.05	158.30	280.55	156.05
50-56	396.25	171.70	293.90	169.30
57-63	409.45	184.85	307.30	182.90
64-70	422.90	198.25	320.75	196.00
71 plus	Prices upon request			

\*Estimated age

#### Zucker Rats

STRAIN CODE: 185 (Obese), 186 (lean)

Age in Days*	MALE PRICE		FEMALE PRICE	
	Obese	Lean	Obese	Lean
Up to 28	250.85	63.90	241.55	61.55
29-35	262.25	66.45	252.55	64.00
36-42	274.65	69.15	264.50	66.60
43-49	288.80	78.25	278.10	75.35
50-56	310.10	86.15	298.60	82.95
57-63	327.45	94.15	315.30	90.65
64-70	344.10	98.20	331.35	94.55
71-77	360.00	102.15	346.65	98.35
78-84	369.60	106.45	355.90	102.50
85-91	380.60	112.70	366.50	108.55
Retired breeders				109.50

\*Estimated age

### 2016 CUSTOMER PRICE

Age in Days*	MALE PRICE		FEMALE PRICE	
	Obese	Lean +/-	Obese	Lean +/-
Up to 42	369.50	144.95	267.30	142.85
43-49	383.05	158.30	280.55	156.05
50-56	396.25	171.70	293.90	169.30
57-63	409.45	184.85	307.30	182.90
64-70	422.90	198.25	320.75	196.00
71 plus	Prices upon request			

\*Estimated age

#### 6% discount

Age in Days*	MALE PRICE		FEMALE PRICE	
	Obese	Lean	Obese	Lean
Up to 28	235.80	60.07	227.06	57.86
29-35	246.52	62.46	237.40	60.16
36-42	258.17	65.00	248.63	62.60
43-49	271.47	73.56	261.41	70.83
50-56	291.49	80.98	280.68	77.97
57-63	307.80	88.50	296.38	85.21
64-70	323.45	92.31	311.47	88.88
71-77	338.40	96.02	325.85	92.45
78-84	347.42	100.06	334.55	96.35
85-91	357.76	105.94	344.51	102.04
Retired breeders				102.93

\*Estimated age

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

2016 CHARLES RIVER LIST PRICE

Black Swiss Mice

STRAIN CODE: 492

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	10.65	11.50
22-28	10.80	11.80
29-35	11.55	12.45
36-42	11.95	12.85
43-49	13.20	13.45
50-56	13.75	14.20
57 plus	Prices upon request	

\*Estimated age

2016 CUSTOMER PRICE

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	9.16	9.89
22-28	9.29	10.15
29-35	9.93	10.71
36-42	10.28	11.05
43-49	11.35	11.57
50-56	11.83	12.21
57 plus	Prices upon request	

\*Estimated age

CD-1<sup>®</sup> IGS Mice

STRAIN CODE: 022

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 12	6.60	6.45
13-15	7.20	7.20
16-18	7.25	7.25
19-21	7.35	7.35
22-24	7.50	7.50
25 plus	Prices upon request	
Retired breeders	7.50	7.15
Littermates 21 days old only	8.80	8.80
Lactating mouse with litter		79.90
Timed pregnant		54.30
Untimed pregnant		35.80

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 12	5.68	5.55
13-15	6.19	6.19
16-18	6.24	6.24
19-21	6.32	6.32
22-24	6.45	6.45
25 plus	Prices upon request	
Retired breeders	6.45	6.15
Littermates 21 days old only	7.57	7.57
Lactating mouse with litter		68.71
Timed pregnant		46.70
Untimed pregnant		30.79

CD1-Elite Mice\*\*

STRAIN CODE: 482

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	19.30	18.65
22 - 28	21.30	20.95
29 - 35	21.55	21.15
36 - 42	21.75	21.30
43 - 49	21.90	21.55
50 Plus	Prices upon request	

\*\*Isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	16.60	16.04
22 - 28	18.32	18.02
29 - 35	18.53	18.19
36 - 42	18.71	18.32
43 - 49	18.83	18.53
50 Plus	Prices upon request	

\*\*Isolator-maintained

CF-1<sup>™</sup> Mice

STRAIN CODE: 023

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 12	6.70	6.70
13-15	7.35	7.35
16-18	7.40	7.40
19-21	7.45	7.45
22-24	7.50	7.50
25 plus	Prices upon request	
Retired breeders	7.35	7.15
Littermates 21 days old only	9.00	9.00
Lactating mouse with litter		81.45
Timed pregnant		55.35
Untimed pregnant		36.50

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 12	5.76	5.76
13-15	6.32	6.32
16-18	6.36	6.36
19-21	6.41	6.41
22-24	6.45	6.45
25 plus	Prices upon request	
Retired breeders	6.32	6.15
Littermates 21 days old only	7.74	7.74
Lactating mouse with litter		70.05
Timed pregnant		47.60
Untimed pregnant		31.39

**OUTBRED MICE**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**CFW<sup>®</sup> Mice (Swiss Webster)**

STRAIN CODE: 024

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 12	6.55	6.55
13-15	7.15	7.25
16-18	7.20	7.30
19-21	7.45	7.45
22-24	7.60	7.60
25 plus	Prices upon request	
Retired breeders	7.25	7.15
Littermates 21 days old only	8.90	8.90
Lactating mouse with litter		80.65
Timed pregnant		54.85
Untimed pregnant		36.15

**2016 CUSTOMER PRICE**

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 12	5.63	5.63
13-15	6.15	6.24
16-18	6.19	6.28
19-21	6.41	6.41
22-24	6.54	6.54
25 plus	Prices upon request	
Retired breeders	6.24	6.15
Littermates 21 days old only	7.65	7.65
Lactating mouse with litter		69.36
Timed pregnant		47.17
Untimed pregnant		31.09

**SKH1-Elite Mice\*\***

STRAIN CODE: 477

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	38.20	38.20
22-28	41.15	41.15
29-35	44.65	44.65
36-42	46.90	46.90
43-49	47.95	47.95
50-56	50.20	50.20
57 plus	Prices upon request	
Retired breeders	48.85	48.85
Littermates 21 days old only	137.40	137.40
Lactating mouse with litter		365.50
Untimed pregnant		262.30

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	32.85	32.85
22-28	35.39	35.39
29-35	38.40	38.40
36-42	40.33	40.33
43-49	41.24	41.24
50-56	43.17	43.17
57 plus	Prices upon request	
Retired breeders	42.01	42.01
Littermates 21 days old only	118.16	118.16
Lactating mouse with litter		314.33
Untimed pregnant		225.58

\*Estimated age

\*\*Isolator-maintained

\*Estimated age

\*\*Isolator-maintained

**Sentinel Mice (Isolator-Maintained)**

STRAIN CODE: 491

Age in Weeks*	FEMALE
	Price
4-6	12.50

\*Estimated age

Age in Weeks*	FEMALE
	Price
4-6	10.75

\*Estimated age

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

2016 CHARLES RIVER LIST PRICE

129-Elite Mice\*\*

STRAIN CODE: 476

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	30.15	32.35
29 - 35	33.95	36.50
36 - 42	36.50	38.55
43 - 49	38.55	41.05
50 - 56	43.10	45.70
57 plus	Prices upon request	
Retired breeders	25.65	25.40
Littermates 21 days old only	36.80	36.80
Lactating mouse with litter		215.20
Untimed pregnant		193.50

\*Estimated age

\*\*Isolator maintained

A/JCr Mice

STRAIN CODE: 563

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	47.10	47.10
22-28	48.40	48.40
29-35	50.85	50.85
36-42	55.60	55.60
43-49	57.05	57.05
50-56	65.25	65.25
57 plus	Prices upon request	
Retired breeders	78.00	77.25
Lactating mouse with litter		257.40
Untimed pregnant		205.85

\*Estimated age

B6 Albino Mice\*\*

STRAIN CODE: 493

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	34.10	34.70
29 - 35	35.60	36.25
36 - 42	37.05	37.70
43 - 49	43.45	40.85
50 - 56	46.70	43.95
57 Plus	Prices upon request	

\*Estimated age

\*\*Isolator-maintained

B6-Ly5.1/Cr Mice

STRAIN CODE: 564

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	29.55	29.55
22-28	31.95	31.95
29-35	34.30	34.30
36-42	36.70	36.70
43-49	39.10	39.10
50-56	41.45	41.45
57 plus	Prices upon request	
Retired breeders	27.80	27.80

\*Estimated age

2016 CUSTOMER PRICE

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	25.93	27.82
29 - 35	29.20	31.39
36 - 42	31.39	33.15
43 - 49	33.15	35.30
50 - 56	37.07	39.30
57 plus	Prices upon request	
Retired breeders	22.06	21.84
Littermates 21 days old only	31.65	31.65
Lactating mouse with litter		185.07
Untimed pregnant		166.41

\*Estimated age

\*\*Isolator maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	40.51	40.51
22-28	41.62	41.62
29-35	43.73	43.73
36-42	47.82	47.82
43-49	49.06	49.06
50-56	56.12	56.12
57 plus	Prices upon request	
Retired breeders	67.08	66.44
Lactating mouse with litter		221.36
Untimed pregnant		177.03

\*Estimated age

B6 Albino Mice\*\*

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	29.33	29.84
29 - 35	30.62	31.18
36 - 42	31.86	32.42
43 - 49	37.37	35.13
50 - 56	40.16	37.80
57 Plus	Prices upon request	

\*Estimated age

\*\*Isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	25.41	25.41
22-28	27.48	27.48
29-35	29.50	29.50
36-42	31.56	31.56
43-49	33.63	33.63
50-56	35.65	35.65
57 plus	Prices upon request	
Retired breeders	23.91	23.91

\*Estimated age

# INBRED MICE

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

## 2016 CHARLES RIVER LIST PRICE

### BALB/c Mice

STRAIN CODE: 028

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	21.35	22.55
22-28	24.70	26.20
29-35	26.35	27.05
36-42	29.45	28.70
43-49	30.00	29.25
50-56	33.30	31.20
57-63	33.95	31.80
64-70	34.60	32.45
71 plus	Prices upon request	
Retired breeders	21.10	21.10
Littermates 21 days old only	32.65	32.65
Lactating mouse with litter		192.50
Timed/Untimed pregnant		163.45

\*Estimated age

### BALB/c-Elite Mice\*\*

STRAIN CODE: 547

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	31.70	34.15
22-28	36.70	39.60
29-35	38.05	40.95
36-42	39.10	42.20
43-49	43.40	43.60
50-56	45.45	44.90
57-63	47.45	45.90
64 plus	Prices upon request	
Retired breeders	31.30	31.30

\*Estimated age

\*\*Isolator-maintained

### C3H Mice

STRAIN CODE: 025

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	23.45	24.95
22-28	27.60	28.50
29-35	28.75	29.50
36-42	31.40	31.40
43-49	35.45	33.75
50-56	36.10	34.35
57-63	38.15	37.00
64-70	44.95	37.70
71 plus	Prices upon request	
Retired breeders	22.60	22.60
Littermates 21 days old only	35.15	35.15
Lactating mouse with litter		211.40
Timed/Untimed pregnant		181.00

\*Estimated age

## 2016 CUSTOMER PRICE

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	18.36	19.39
22-28	21.24	22.53
29-35	22.66	23.26
36-42	25.33	24.68
43-49	25.80	25.16
50-56	28.64	26.83
57-63	29.20	27.35
64-70	29.76	27.91
71 plus	Prices upon request	
Retired breeders	18.15	18.15
Littermates 21 days old only	28.08	28.08
Lactating mouse with litter		165.55
Timed/Untimed pregnant		140.57

\*Estimated age

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	27.26	29.37
22-28	31.56	34.06
29-35	32.72	35.22
36-42	33.63	36.29
43-49	37.32	37.50
50-56	39.09	38.61
57-63	40.81	39.47
64 plus	Prices upon request	
Retired breeders	26.92	26.92

\*Estimated age

\*\*Isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	20.17	21.46
22-28	23.74	24.51
29-35	24.73	25.37
36-42	27.00	27.00
43-49	30.49	29.03
50-56	31.05	29.54
57-63	32.81	31.82
64-70	38.66	32.42
71 plus	Prices upon request	
Retired breeders	19.44	19.44
Littermates 21 days old only	30.23	30.23
Lactating mouse with litter		181.80
Timed/Untimed pregnant		155.66

\*Estimated age



**INBRED MICE**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**C57BL/6 Mice**

STRAIN CODE: 027

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	21.00	22.65
22-28	24.30	26.10
29-35	26.35	27.40
36-42	28.50	28.95
43-49	32.80	29.50
50-56	33.40	30.90
57-63	33.75	31.50
64-70	34.55	32.10
71 plus	Prices upon request	
Retired breeders	21.70	21.10
Littermates 21 days old only	31.65	31.65
Lactating mouse with litter		244.70
Timed/Untimed pregnant		203.50

\*Estimated age

**C57BL/6-Elite Mice\*\***

STRAIN CODE: 475

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	31.60	34.80
22-28	36.65	40.20
29-35	39.50	43.35
36-42	41.85	44.15
43-49	48.95	45.00
50-56	49.90	46.00
57-63	50.85	46.90
64 plus	Prices upon request	
Retired breeders	31.90	31.90
Littermates 21 days old only	47.30	47.30
Lactating mouse with litter		366.45
Untimed pregnant		243.90

\*Estimated age

\*\*Isolator-maintained

**DBA/2 Mice**

STRAIN CODE: 026

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	30.85	32.45
22-28	34.95	33.05
29-35	36.85	38.70
36-42	39.75	39.45
43-49	40.50	40.10
50-56	44.45	40.85
57-63	45.30	42.75
64-70	46.10	43.15
71 plus	Prices upon request	
Retired breeders	27.35	27.35
Littermates 21 days old only	37.75	37.75
Lactating mouse with litter		221.70
Timed/Untimed pregnant		193.40

\*Estimated age

**2016 CUSTOMER PRICE**

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	18.06	19.48
22-28	20.90	22.45
29-35	22.66	23.56
36-42	24.51	24.90
43-49	28.21	25.37
50-56	28.72	26.57
57-63	29.03	27.09
64-70	29.71	27.61
71 plus	Prices upon request	
Retired breeders	18.66	18.15
Littermates 21 days old only	27.22	27.22
Lactating mouse with litter		210.44
Timed/Untimed pregnant		175.01

\*Estimated age

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	27.18	29.93
22-28	31.52	34.57
29-35	33.97	37.28
36-42	35.99	37.97
43-49	42.10	38.70
50-56	42.91	39.56
57-63	43.73	40.33
64 plus	Prices upon request	
Retired breeders	27.43	27.43
Littermates 21 days old only	40.68	40.68
Lactating mouse with litter		315.15
Untimed pregnant		209.75

\*Estimated age

\*\*Isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	26.53	27.91
22-28	30.06	28.42
29-35	31.69	33.28
36-42	34.19	33.93
43-49	34.83	34.49
50-56	38.23	35.13
57-63	38.96	36.77
64-70	39.65	37.11
71 plus	Prices upon request	
Retired breeders	23.52	23.52
Littermates 21 days old only	32.47	32.47
Lactating mouse with litter		190.66
Timed/Untimed pregnant		166.32

\*Estimated age

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

2016 CHARLES RIVER LIST PRICE

2016 CUSTOMER PRICE

Fox Chase CB17™ Mice\*\*

STRAIN CODE: 251

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	65.85	65.85
29-35	70.60	70.60
36-42	77.95	77.95
43-49	83.20	83.20
50-56	88.20	88.20
57 plus	Prices upon request	

\*Estimated age

\*\*Isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	56.63	56.63
29-35	60.72	60.72
36-42	67.04	67.04
43-49	71.55	71.55
50-56	75.85	75.85
57 plus	Prices upon request	

\*Estimated age

\*\*Isolator-maintained

FVB Mice

STRAIN CODE: 207

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	23.30	25.85
22-35	25.95	28.40
36-49	30.05	32.60
50-63	35.75	37.65
64-77	42.45	44.20
78-91	48.85	49.85
92 plus	Prices upon request	
Retired breeders	21.10	21.10
Timed /Untimed pregnant		236.75

\*Estimated age

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	20.04	22.23
22-35	22.32	24.42
36-49	25.84	28.04
50-63	30.75	32.38
64-77	36.51	38.01
78-91	42.01	42.87
92 plus	Prices upon request	
Retired breeders	18.15	18.15
Timed /Untimed pregnant		203.61

\*Estimated age

SJL-Elite Mice\*\*

STRAIN CODE: 478

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	29.55	31.80
29 - 35	31.55	33.45
36 - 42	33.30	38.00
43 - 49	35.30	38.55
50 - 56	37.05	40.55
57 Plus	Prices upon request	
Retired breeders	25.55	25.55
Littermates 21 days old only	33.90	33.90
Lactating mouse with litter		238.65
Untimed pregnant		205.60

\*Estimated age

\*\*Isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	25.41	27.35
29 - 35	27.13	28.77
36 - 42	28.64	32.68
43 - 49	30.36	33.15
50 - 56	31.86	34.87
57 Plus	Prices upon request	
Retired breeders	21.97	21.97
Littermates 21 days old only	29.15	29.15
Lactating mouse with litter		205.24
Untimed pregnant		176.82

\*Estimated age

\*\*Isolator-maintained

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

2016 CHARLES RIVER LIST PRICE

B6C3F1 Mice

STRAIN CODE: 031

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	22.20	24.00
22-28	25.65	28.10
29-35	27.60	28.95
36-42	33.10	31.95
43-49	36.40	31.95
50-56	43.30	31.95
57 plus	Prices upon request	
Littermates 21 days old only	34.90	34.90

\*Estimated age

B6D2F1 Mice *when ordering, specify BDF1*

STRAIN CODE: 099

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	20.90	23.35
22-28	24.10	26.25
29-35	27.00	27.45
36-42	32.40	28.75
43-49	35.85	30.85
50-56	42.15	30.85
57 plus	Prices upon request	
Littermates 21 days old only	34.65	34.65

\*Estimated age

CB6F1 Mice

STRAIN CODE: 176

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	22.90	24.95
22-28	26.40	29.45
29-35	27.20	30.20
36-42	28.25	32.55
43-49	29.90	32.55
50-56	29.90	32.55
57 plus	Prices upon request	
Littermates 21 days old only	34.70	34.70

\*Estimated age

CD2F1 Mice *when ordering, specify CDF1*

STRAIN CODE: 033

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	22.50	24.60
22-28	26.90	28.00
29-35	29.85	29.00
36-42	29.85	30.15
43-49	34.15	32.10
50-56	34.15	32.10
57 plus	Prices upon request	
Littermates 21 days old only	36.85	36.85

\*Estimated age

2016 CUSTOMER PRICE

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	19.09	20.64
22-28	22.06	24.17
29-35	23.74	24.90
36-42	28.47	27.48
43-49	31.30	27.48
50-56	37.24	27.48
57 plus	Prices upon request	
Littermates 21 days old only	30.01	30.01

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	17.97	20.08
22-28	20.73	22.58
29-35	23.22	23.61
36-42	27.86	24.73
43-49	30.83	26.53
50-56	36.25	26.53
57 plus	Prices upon request	
Littermates 21 days old only	29.80	29.80

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	19.69	21.46
22-28	22.70	25.33
29-35	23.39	25.97
36-42	24.30	27.99
43-49	25.71	27.99
50-56	25.71	27.99
57 plus	Prices upon request	
Littermates 21 days old only	29.84	29.84

\*Estimated age

Age in Days*	MALE	FEMALE
	Price	Price
Up to 21	19.35	21.16
22-28	23.13	24.08
29-35	25.67	24.94
36-42	25.67	25.93
43-49	29.37	27.61
50-56	29.37	27.61
57 plus	Prices upon request	
Littermates 21 days old only	31.69	31.69

\*Estimated age

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

2016 CHARLES RIVER LIST PRICE

2016 CUSTOMER PRICE

PGP Mice\*\* *P-glycoprotein Deficient*

STRAIN CODE: 291

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	99.50	99.50
35	108.00	108.00
42	116.75	116.75
49	125.45	125.45
56	134.20	134.20
57 plus	Prices upon request	

\*Estimated age

\*\*Isolator-maintained

Age in Days*	MALE	FEMALE
	Price	Price
Up to 28	99.50	99.50
35	108.00	108.00
42	116.75	116.75
49	125.45	125.45
56	134.20	134.20
57 plus	Prices upon request	

\*Estimated age

\*\*Isolator-maintained

## IMMUNODEFICIENT MODELS

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

### 2016 CHARLES RIVER LIST PRICE

#### Athymic Nude Mice\*\*

STRAIN CODE: 490 (Homozygous), 491 (Heterozygous)<sup>§</sup>

Age in Days*	HOMOZYGOUS PRICING MALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	72.45	54.45	45.50
43-56	80.25	62.60	53.40
57-63	91.30	73.50	65.25
64 Plus	Prices upon request		

Age in Days*	HOMOZYGOUS PRICING FEMALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	84.20	63.30	53.00
43-56	93.40	73.75	63.40
57-63	105.75	85.05	75.15
64 Plus	Prices upon request		

\*Estimated age

\*\*Outbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient

### 2016 CUSTOMER PRICE

14% discount on 1st tier only

Age in Days*	HOMOZYGOUS PRICING MALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	62.31	54.45	45.50
43-56	69.02	62.60	53.40
57-63	78.52	73.50	65.25
64 Plus	Prices upon request		

Age in Days*	HOMOZYGOUS PRICING FEMALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	72.41	63.30	53.00
43-56	80.32	73.75	63.40
57-63	90.95	85.05	75.15
64 Plus	Prices upon request		

\*Estimated age

\*\*Outbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

#### Fox Chase SCID<sup>®</sup> Mice\*\* When Ordering, Specify C.B-17 SCID

STRAIN CODE: 236

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	80.20	80.20
29-35	85.70	85.70
36-42	91.70	91.70
43-49	96.60	96.60
50-56	102.10	102.10
57 plus	Prices Upon Request	

\*Estimated age

\*\*Congenic, isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	68.97	68.97
29-35	73.70	73.70
36-42	78.86	78.86
43-49	83.08	83.08
50-56	87.81	87.81
57 plus	Prices upon request	

\*Estimated age

\*\*Congenic, isolator-maintained

#### Fox Chase SCID<sup>®</sup> Beige Mice\*\*

STRAIN CODE: 250

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	84.20	85.00
29-35	89.10	90.00
36-42	94.90	94.90
43-49	100.20	100.20
50-56	105.20	105.20
57 plus	Prices Upon Request	

\*Estimated age

\*\*Congenic, isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	72.41	73.10
29-35	76.63	77.40
36-42	81.61	81.61
43-49	86.17	86.17
50-56	90.47	90.47
57 plus	Prices upon request	

\*Estimated age

\*\*Congenic, isolator-maintained

#### NOD SCID Mice\*\*

STRAIN CODE: 394

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 42	118.55	125.70
43-56	128.20	138.70
56 Plus	Prices Upon Request	

\*Estimated age

\*\*Congenic, isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 42	101.95	108.10
43-56	110.25	119.28
56 Plus	Prices upon request	

\*Estimated age

\*\*Congenic, isolator-maintained

**IMMUNODEFICIENT MODELS**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**NU/NU BALB/c Mice\*\***

STRAIN CODE: 194 (Homozygous), 195 (Heterozygous)<sup>§</sup>

	PRICE
Homozygous, either sex nu/nu, 28-42 days*	166.95
Heterozygous, either sex nu+, 28-42 days*	61.40
43 plus	Prices Upon Request

\*Estimated age

\*\*Inbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

**NU/NU- CD-1<sup>®</sup> Mice\*\***

STRAIN CODE: 086 (Homozygous), 087 (Heterozygous)<sup>§</sup>

Age in Days*	HOMOZYGOUS PRICING MALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	72.45	54.45	45.50
43-56	80.25	62.60	53.40
57-63	90.40	72.75	64.60
64 Plus	Prices upon request		

Age in Days*	HOMOZYGOUS PRICING** FEMALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	84.20	63.30	52.95
43-56	93.40	73.75	63.40
57-63	105.75	85.05	75.15
64 Plus	Prices Upon Request		

\*Estimated age

\*\*Outbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

**NIH III Nude Mice\*\***

STRAIN CODE: 201 (Homozygous), 202 (Heterozygous)<sup>§</sup>

	PRICE
Homozygous, either sex nu/nu, 28-42 days*	96.15
Heterozygous, either sex nu+, 28-42 days*	49.50

\*Estimated age

\*\*Outbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

**NU/NU Mice\*\***

STRAIN CODE: 088 (Homozygous), 089 (Heterozygous)<sup>§</sup>

Age in Days*	HOMOZYGOUS PRICING MALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	72.45	54.45	45.50
43-56	80.25	62.60	53.40
57-63	90.40	72.75	64.60
64 Plus	Prices upon request		

Age in Days*	HOMOZYGOUS PRICING FEMALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	84.20	63.30	53.00
43-56	93.40	73.75	63.40
57-63	104.70	84.25	74.45
64 Plus	Prices Upon Request		

\*Estimated age

\*\*Outbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

**2016 CUSTOMER PRICE**

	PRICE
Homozygous, either sex nu/nu, 28-42 days*	143.58
Heterozygous, either sex nu+, 28-42 days*	52.80
43 plus	Prices upon request

\*Estimated age

\*\*Inbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

**251+ pricing**

Age in Days*	HOMOZYGOUS PRICING MALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	45.50	45.50	45.50
43-56	53.40	53.40	53.40
57-63	64.60	64.60	64.60
64 Plus	Prices upon request		

Age in Days*	HOMOZYGOUS PRICING** FEMALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	52.95	52.95	52.95
43-56	63.40	63.40	63.40
57-63	75.15	75.15	75.15
64 Plus	Prices upon request		

\*Estimated age

\*\*Outbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

	PRICE
Homozygous, either sex nu/nu, 28-42 days*	82.69
Heterozygous, either sex nu+, 28-42 days*	42.57

\*Estimated age

\*\*Outbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

**251+ pricing**

Age in Days*	HOMOZYGOUS PRICING MALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	45.50	45.50	45.50
43-56	53.40	53.40	53.40
57-63	64.60	64.60	64.60
64 Plus	Prices upon request		

Age in Days*	HOMOZYGOUS PRICING FEMALES (QUANTITY)		
	1-100	101-250	251+
Up to 42	53.00	53.00	53.00
43-56	63.40	63.40	63.40
57-63	74.45	74.45	74.45
64 Plus	Prices upon request		

\*Estimated age

\*\*Outbred, isolator-maintained

<sup>§</sup>Heterozygous (haired) animals are not immunodeficient.

**IMMUNODEFICIENT MODELS**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**NUDE RATS\*\*** *When Ordering, Specify RNU*

STRAIN CODE: 316 (Homozygous), 118 (Heterozygous)<sup>§</sup>

Age in Weeks*	HOMOZYGOUS	HOMOZYGOUS
	MALE PRICE	FEMALE PRICE
Up to 4	145.70	148.45
5	182.40	182.40
6	219.15	219.15
7	252.95	252.95
8	290.00	290.00
9	323.35	323.35
10	357.85	361.15
11 plus	Prices Upon Request	

\*Estimated age

\*\*Outbred, isolator-maintained

§Heterozygous (haired) animals are not immunodeficient.

**2016 CUSTOMER PRICE**

Age in Weeks*	HOMOZYGOUS	HOMOZYGOUS
	MALE PRICE	FEMALE PRICE
Up to 4	125.30	127.67
5	156.86	156.86
6	188.47	188.47
7	217.54	217.54
8	249.40	249.40
9	278.08	278.08
10	307.75	310.59
11 plus	Prices upon request	

\*Estimated age

\*\*Outbred, isolator-maintained

§Heterozygous (haired) animals are not immunodeficient.

**SCID Hairless Congenic Mice\*\*** *when ordering, specify SHC™*

STRAIN CODE: 488

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	100.15	100.15
29-35	106.90	106.90
36-42	113.30	113.30
43-49	119.35	119.35
50-56	126.15	126.15
57 plus	Prices Upon Request	

\*Estimated age

\*\*Congenic, isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 28	86.13	86.13
29-35	91.93	91.93
36-42	97.44	97.44
43-49	102.64	102.64
50-56	108.49	108.49
57 plus	Prices upon request	

\*Estimated age

\*\*Congenic, isolator-maintained

**SCID Hairless Outbred Mice\*** *when ordering, specify SHO®*

STRAIN CODE: 474

Age in Days*	MALE QUANTITY AND PRICING		
	1-100	101-250	251+
Up to 42	87.10	65.50	54.75
43-56	96.60	75.20	64.25
57-63	109.80	88.50	78.40
64 Plus	Prices upon request		

\*Estimated age

\*\*Outbred, isolator-maintained

**14% discount on 1st tier only**

Age in Days*	MALE QUANTITY AND PRICING		
	1-100	101-250	251+
Up to 42	87.10	65.50	54.75
43-56	96.60	75.20	64.25
57-63	109.80	88.50	78.40
64 Plus	Prices upon request		

\*Estimated age

\*\*Outbred, isolator-maintained

Age in Days*	FEMALE QUANTITY AND PRICING		
	1-100	101-250	251+
Up to 42	101.35	76.20	63.70
43-56	112.35	88.80	76.25
57-63	124.90	100.50	88.85
	Prices upon request		

Age in Days*	FEMALE QUANTITY AND PRICING		
	1-100	101-250	251+
Up to 42	101.35	76.20	63.70
43-56	112.35	88.80	76.25
57-63	124.90	100.50	88.85
64 Plus	Prices upon request		

**SCID/NCr Mice\*\*** (BALB/c background)

STRAIN CODE: 561

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	92.55	92.55
22-28	94.65	94.65
29-35	96.75	96.75
36-42	98.80	98.80
43-49	100.90	100.90
50-56	103.00	103.00
57 plus	Prices Upon Request	

\*Estimated age

\*\*Inbred, isolator-maintained

Age in Days*	MALE	FEMALE
	PRICE	PRICE
Up to 21	79.59	79.59
22-28	81.40	81.40
29-35	83.21	83.21
36-42	84.97	84.97
43-49	86.77	86.77
50-56	88.58	88.58
57 plus	Prices Upon Request	

\*Estimated age

\*\*Inbred, isolator-maintained

## GUINEA PIGS & HAMSTERS

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

### 2016 CHARLES RIVER LIST PRICE

#### Hartley Guinea Pigs

STRAIN CODE: 051

Weight in Grams	Specified Sex	Either Sex
	Price	Price
Up to 200	104.50	75.50
201-250	116.70	82.30
251-300	123.60	88.90
301-350	130.80	94.50
351-400	137.80	100.05
401-450	145.10	104.50
451-500	151.70	109.80
501-550	163.65	119.90
551 plus	Prices upon request	
Retired breeders	34.95	34.95

### 2016 CUSTOMER PRICE

Weight in Grams	Specified Sex	Either Sex
	Price	Price
Up to 200	89.87	64.93
201-250	100.36	70.78
251-300	106.30	76.45
301-350	112.49	81.27
351-400	118.51	86.04
401-450	124.79	89.87
451-500	130.46	94.43
501-550	140.74	103.11
551 plus	Prices upon request	
Retired breeders	30.06	30.06

#### IAF Hairless Guinea Pigs

STRAIN CODE: 161

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 200	191.50	191.50
201-250	206.35	206.35
251-300	230.60	230.60
301-350	251.20	251.20
351-400	271.65	271.65
401-450	287.20	287.20
451-500	297.40	297.40
501-550	322.10	322.10
551 plus	Prices upon request	

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 200	164.69	164.69
201-250	177.46	177.46
251-300	198.32	198.32
301-350	216.03	216.03
351-400	233.62	233.62
401-450	246.99	246.99
451-500	255.76	255.76
501-550	277.01	277.01
651 plus	Prices upon request	

#### LVG Golden Syrian Hamsters

STRAIN CODE: 049

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	29.55	29.55
51-60	32.70	32.70
61-70	35.60	35.60
71-80	40.15	40.15
81-90	45.20	45.20
91-100	50.60	50.60
101-110	54.55	54.55
111-120	56.80	56.80
121 plus	Prices upon request	
Retired breeders	46.05	46.05
Timed pregnant		105.70

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 50	25.41	25.41
51-60	28.12	28.12
61-70	30.62	30.62
71-80	34.53	34.53
81-90	38.87	38.87
91-100	43.52	43.52
101-110	46.91	46.91
111-120	48.85	48.85
131 plus	Prices upon request	
Retired breeders	39.60	39.60
Timed pregnant		90.90



Unless otherwise stated, the following University of California, San Francisco pricing reflects a 14% discount off of the 2016 published Charles River research models and services price list.

### 2016 CHARLES RIVER LIST PRICE

#### Mongolian Gerbils

STRAIN CODE: 243

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 40	69.55	66.20
41-50	71.65	69.55
51-60	77.10	71.65
61-70	79.40	74.50
71-80	82.15	79.40
81-90	86.70	
91 Plus	Prices upon request	
Retired Breeder	69.55	69.55
Proven Breeder Pair		198.05
Untimed Pregnant		207.95
Lactating mother with pups		218.10

### 2016 CUSTOMER PRICE

Weight in Grams	MALE	FEMALE
	Price	Price
Up to 40	59.81	56.93
41-50	61.62	59.81
51-60	66.31	61.62
61-70	68.28	64.07
71-80	70.65	68.28
81-90	74.56	
91 Plus	Prices upon request	
Retired Breeder	59.81	59.81
Proven Breeder Pair		170.32
Untimed Pregnant		178.84
Lactating mother with pups		187.57

#### New Zealand White Rabbits

STRAIN CODE: 052

Weight		Specified Sex	Either Sex
Kgs	Lbs	Price	Price
1.4-1.8	3-4	151.15	126.60
1.9-2.3	4-5	179.25	153.95
2.4-2.7	5-6	208.15	182.70
2.8-3.0	6-7	233.65	208.15
3.1-3.3	7	269.30	242.30
3.4 - 3.6	8	292.45	265.35
3.7-3.9	8-9	303.35	286.20

Weight		Specified Sex	Either Sex
Kgs	Lbs	Price	Price
1.4-1.8	3-4	129.99	108.88
1.9-2.3	4-5	154.16	132.40
2.4-2.7	5-6	179.01	157.12
2.8-3.0	6-7	200.94	179.01
3.1-3.3	7	231.60	208.38
3.4 - 3.6	8	251.51	228.20
3.7-3.9	8-9	260.88	246.13

## SURGICAL SERVICES

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

### Vascular Catheterizations<sup>1</sup>

	CODE	LIST	CUSTOMER	LIST	CUSTOMER	LIST	CUSTOMER
		RAT PRICE*†	RAT PRICE*†	MOUSE PRICE**	MOUSE PRICE**	G.PIG PRICE*†	G.PIG PRICE*†
Carotid Artery, Common	CARART	96.80	96.80	151.60	151.60	130.70	130.70
Carotid Artery - Cranial Dosing	CARART-CD	96.80	96.80	155.90	155.90	-	-
Femoral Artery	FEMART	112.00	112.00	-	-	-	-
Femoral Vein	FEMVEIN	95.45	95.45	-	-	-	-
Jugular Vein	JUGVEIN	78.10	78.10	113.50	113.50	96.25	96.25
Double Jugular Vein <sup>2</sup>	JUGJUGVEIN	158.65	158.65	-	-	192.05	192.05
Portal Vein	PORTVEIN	152.00	152.00	-	-	-	-
Portal Vein with T-Tubing	PVCTTUBING	190.50	190.50	-	-	-	-
Vena Cava (Femoral Vein)	VENACAVA-FV	95.45	95.45	-	-	-	-

Any two vascular catheter procedures may be combined.

<sup>1</sup> Charles River partners with multiple catheter manufacturers to provide standard and customized catheters. Our standard vascular catheter is made of polyurethane. However, silicone, polyethylene and blended catheters are available upon request. Specific catheters that are able to accommodate automated samplers are also available at an additional cost.

<sup>2</sup> Infusion using only one of these two catheters (indicated on shipping documentation).

\*Surgical procedures do not include the price of the animal, shipping, or container charges.

† Add \$11.25 Surcharge per animal for gas anesthesia. Add \$13.50 surcharge per animal for immunodeficient models.

### Non-Vascular Catheterizations

	CODE	LIST	CUSTOMER	LIST	CUSTOMER	LIST	CUSTOMER
		RAT PRICE*†	RAT PRICE*†	MOUSE PRICE**	MOUSE PRICE**	G.PIG PRICE*†	G.PIG PRICE*†
Bile Duct††	BILECANN	172.45	172.45	271.25	271.25	-	-
Colon <sup>3</sup>	COLON	152.15	152.15	180.20	180.20	-	-
Duodenum <sup>3</sup>	DUODCANN	142.35	142.35	220.40	220.40	-	-
Ileum <sup>3</sup>	ILEUM	173.60	173.60	-	-	-	-
Intraperitoneal Catheterization	IP-CATH	113.10	113.10	130.05	130.05	140.30	140.30
Intrathecal Cannulation <sup>3</sup>	THECALCAN	189.75	189.75	-	-	-	-
Jejunum <sup>3</sup>	JEJUNUM	167.30	167.30	177.50	177.50	-	-
Stomach (gastric) <sup>3</sup>	STOMCANN	122.30	122.30	133.30	133.30	-	-
Subcutaneous Catheter	SQCATH	54.40	54.40	90.55	90.55	-	-
Urinary Bladder <sup>3</sup>	URIBLADCAN	114.40	114.40	133.30	-	-	-
Uterus - Unilateral <sup>3</sup>	UTERCATH	122.30	122.30	-	-	-	-

Any non-vascular catheter procedure may be combined with a vascular catheter procedure

<sup>3</sup> For infusion only; no sample collection.

\*Surgical procedures do not include the price of the animal, shipping, or container charges.

† Add \$11.25 Surcharge per animal for gas anesthesia. Add \$13.50 surcharge per animal for immunodeficient models.

†† The IACUC surgery protocol requires an extended post-operative holding period, for animal recovery, before shipping.

### Neurological Procedures

	CODE	LIST	CUSTOMER	LIST	CUSTOMER	LIST	CUSTOMER
		RAT PRICE*†	RAT PRICE*†	MOUSE PRICE**	MOUSE PRICE**	G.PIG PRICE*†	G.PIG PRICE*†
Angiotensin II Testing for IVC	ANG II	90.25	90.25	-	-	-	-
Chronic Constriction Injury (CCI) of Sciatic Nerve	BENNETT	170.25	170.25	-	-	-	-
Bilateral Brain Cannulation <sup>4††</sup>	BIL-BRAIN	225.45	225.45	279.15	279.15	-	-
Bilateral Superior Ganglion Denervation	GANGLIONBI	85.80	85.80	117.60	117.60	-	-
Spinal Nerve Ligation (SNL)	CHUNG	183.95	183.95	-	-	-	-
Intracisternal Cannulation	INTRCIST	174.30	174.30	-	-	-	-
Intralateral Ventricular Cannulation ††	IVC	125.50	125.50	147.90	147.90	-	-
Intralateral Ventricular Cannulation MRI Compatible††	IVC-MRI	151.55	151.55	-	-	-	-
Intralateral Ventricular Cannulation for Pump Connection††	IVCTUBING	149.25	149.25	-	-	-	-
Intralateral Ventricular Cannulation for Pump Connection MRI Compatible††	IVCTUBINMRI	175.20	175.20	-	-	-	-
Intrathecal Cannulation <sup>3</sup>	THECALCANN	189.75	189.75	-	-	-	-
Microdialysis Probe Implantation <sup>4††</sup>	UNI-BMICRO	166.50	166.50	-	-	-	-
Parkinson's Model (Chemical-60HDA)††	PARKINSON	205.90	205.90	-	-	-	-
Schizophrenia/Epilepsy Model	-	**	**	-	-	-	-
Superior Cervical Ganglion Denervation	GANGLION	60.00	60.00	92.25	92.25	-	-
Unilateral Brain Cannulation <sup>4††</sup>	UNI-BRAIN	136.35	136.35	154.60	154.60	-	-
Third Ventricular Cannulation††	3RDVENTCAN	143.25	143.25	203.20	203.20	-	-

Any of these procedures may be combined with a vascular catheter procedure.

<sup>3</sup> For infusion only; no sample collection

<sup>4</sup> Customer provides coordinates.

\* Surgical procedures do not include the price of the animal, shipping or container charges.

\*\* Priced upon request.

† Add \$11.25 Surcharge per animal for gas anesthesia. Add \$13.50 Surcharge per animal for immunodeficient models.

†† The IACUC surgery protocol requires an extended post-operative holding period, for animal recovery, before shipping.

## SURGICAL SERVICES

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

### Cardiovascular Procedures

	CODE	LIST RAT PRICE*†	CUSTOMER RAT PRICE*†	LIST MOUSE PRICE*†	CUSTOMER MOUSE PRICE*†	LIST G.PIG PRICE*†	CUSTOMER G.PIG PRICE*†
Abdominal Banding – Hypertension Model††	ABDBAND	82.00	82.00	-	-	-	-
Atherosclerosis - Carotid Artery Embolectomy	ATHERO-EMB	208.45	208.45	-	-	-	-
Left Coronary Artery Ligation††	MYOINFARC	255.65	255.65	-	-	-	-
Portal circulation redirected to the vena cava, bypassing the liver	PORTCAVSHT	282.90	282.90	-	-	-	-
Thoracic Aortic Banding††	TABAND	139.65	139.65	-	-	-	-
Thoracic Aortic Banding - Ascending Aorta††	AATABAND	180.50	180.50	-	-	-	-

\* Surgical procedures do not include the price of the animal, shipping, or container charges.

† Add \$11.25 Surcharge per animal for gas anesthesia. Add \$13.50 Surcharge per animal for immunodeficient models.

†† The IACUC surgery protocol requires an extended post-operative holding period, for animal recovery, before shipping.

### Soft Tissue Procedures

	CODE	LIST RAT PRICE*†	CUSTOMER RAT PRICE*†	LIST MOUSE PRICE*†	CUSTOMER MOUSE PRICE*†	LIST G.PIG PRICE*†	CUSTOMER G.PIG PRICE*†
Adrenalectomy	ADREX	22.45	22.45	23.60	23.60	-	-
Adrenal Demedullation	ADREXDEMED	37.05	37.05	40.25	40.25	-	-
Bile Duct Ligation	BILEDUCLIG	62.40	62.40	71.35	71.35	-	-
Castration	CASTRATE	21.90	21.90	22.85	22.85	-	-
Facial Nerve Axotomy - Unilateral	FACAXOT	70.75	70.75	-	-	-	-
Hepatectomy	HEPATEX	-	-	146.90	146.90	-	-
Hypophysectomy (Pharyngeal) - Std weights††	HYPOX	62.30	62.30	97.80	97.80	-	-
Hypophysectomy <75g or >200g††	HYPOX1	93.05	93.05	-	-	-	-
Hysterectomy	HYSTERX	68.40	68.40	73.20	73.20	-	-
Nephrectomy – Unilateral	NEPHREX	38.15	38.15	40.85	40.85	-	-
5/6 Nephrectomy – Multiple survival††	5/6 NEPHREX	124.10	124.10	136.40	136.40	-	-
Olfactory Bulbectomy	OLFACTOREX	123.00	123.00	-	-	-	-
Osteoarthritis Model (MIA) ††	MIA14	28.70	28.70	-	-	-	-
Ovariectomy	OVARIEX	21.90	21.90	22.40	22.40	43.45	43.45
Pancreatectomy	PANCRISX	126.50	126.50	-	-	-	-
Parathyroidectomy††	PARATHYROX	46.15	46.15	-	-	-	-
Pinealectomy	PINEAL	211.50	211.50	-	-	-	-
Splenectomy	SPLEENX	26.80	26.80	32.10	32.10	-	-
Splenic Denervation	SPLENDNERV	130.60	130.60	-	-	-	-
Thymectomy	THYMEX	48.55	48.55	61.30	61.30	-	-
Thyroidectomy w/ Parathyroid Reimplant	THYROX	49.05	49.05	-	-	-	-
Thyroidectomy + Parathyroidectomy	THYRO+PARA	47.75	47.75	48.50	48.50	-	-
Tubal Ligation – Bilateral	BITUBALLIG	34.60	34.60	36.45	36.45	-	-
Tubal Ligation – Unilateral	UNTUBALLIG	28.95	28.95	29.85	29.85	-	-
Ureter Ligation	URETERLIG	81.45	81.45	94.00	94.00	-	-
Vagotomy (Hepatic - standard procedure for mice)††	VAGOX	70.45	70.45	72.35	72.35	-	-
Vagotomy-Stomach††	VAGOX-STM	70.45	70.45	-	-	-	-
Vagotomy (Sub-diaphragmatic - standard procedure for rats)††	VAGOX-SD	70.45	70.45	-	-	-	-
Vasectomy	VASEX	26.65	26.65	28.60	28.60	-	-

A soft tissue procedure may be combined with a vascular catheter procedure.

Sham procedures are available upon request.

\* Surgical procedures do not include the price of the animal, shipping, or container charges.

† Add \$11.25 Surcharge per animal for gas anesthesia. Add \$13.50 Surcharge per animal for immunodeficient models.

†† The IACUC surgery protocol requires an extended post-operative holding period, for animal recovery, before shipping.

## SURGICAL SERVICES

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

### DEVICE IMPLANTS<sup>5</sup>

	CODE	LIST RAT PRICE*†	CUSTOMER RAT PRICE*†	LIST MOUSE PRICE**†	CUSTOMER MOUSE PRICE**†	LIST G.PIG PRICE*†	CUSTOMER G.PIG PRICE*†
Blood Pressure Telemetry††	TELEMBP	163.20	163.20	183.25	183.25	170.45	170.45
Blood Pressure + Electrocardiograph Telemetry††	TELEMBPECG	199.70	199.70	238.55	238.55	201.60	201.60
Blood Pressure + Electroencephalograph Telemetry††	TELEMBPEEG	199.70	199.70	-	-	-	-
Electrocardiograph Telemetry††	TELEMECG	137.20	137.20	142.30	142.30	141.95	141.95
Electroencephalograph + Electrocardiograph Telemetry††	EEG/ECG	162.05	162.05	174.40	174.40	-	-
Electroencephalograph + Electromyograph Telemetry††	EEG/EMG	169.05	169.05	-	-	-	-
Electroencephalograph + Electroencephalograph + Electromyograph††	EEG/EEG/EMG	289.25	289.25	-	-	-	-
Electromyograph Telemetry ††	EMG	137.20	137.20	-	-	-	-
Osmotic/Infusion Pump	IMPLANT2	61.90	61.90	61.90	61.90	61.90	61.90
Pleural Pressure Telemetry††	TELEMPPP	231.15	231.15	-	-	-	-
Pleural Pressure + Electrocardiograph Telemetry††	TELEMPPECG	280.85	280.85	-	-	-	-
Simple Injectable Implant	IMPLANT	25.15	25.15	25.15	25.15	25.15	25.15
Temperature + Activity Telemetry††	TELEMTA	117.15	117.15	-	-	-	-

<sup>5</sup> Charles River does not stock of any of these items, but will implant them when supplied by customer in factory-direct packaging. Price does not include cost of these devices.

\* Surgical procedures do not include the price of the animal, shipping, or container charges.

† Add \$11.25 Surcharge per animal for gas anesthesia. Add \$13.50 Surcharge per animal for immunodeficient models.

†† The IACUC surgery protocol requires an extended post-operative holding period, for animal recovery, before shipping.

### Surgical Support

Item	Price**
Rent-a-Surgeon	3,549.00
Rent-a-Trainer	5,460.00

\*\*Pricing does not include travel expenses.

**PRECONDITIONED MODELS**

Unless otherwise stated, the following University of California, San Francisco pricing reflects a 0% discount off of the 2016 published Charles River research models and services price list.

**2016 CHARLES RIVER LIST PRICE**

**Pre-ID™ Services\***

Description	Code	Price
NEW Rapid Tags® (customer supplied tag)**	RAPID	5.00
Avid Brand Identification Chip - Subcutaneous Implant	AVIDTRANS	12.10
Biomed Brand Identification Chip - Subcutaneous Implant	BIOMEDTRNS	12.10
Ear Punch	EARPUNCH	3.80
Ear Tags	EARTAGS	3.80
Somark Labstamp® (mice only)	LABSTAMP ID	5.00
Tail Marking	TAILMARK	3.60
Tattoo	TATTOO	6.60

\*Pre-ID™ services do not include the price of the animal, shipping or container charges.

\*\* Charles River can supply the tag and service for \$10.50.

**Pre-Screening Services\***

Description	Code	Price
Glucose Monitoring	GLUCOSE	6.25

\*Pre-Screening services do not include the price of the animal, shipping or container charges.

**Pre-Dosing/Pre-Injection Services\***

Description	Code	Price
Injection**	INJECT	5.35
IP (intraperitoneal) Injection**	INJ-IP	5.35
Subcutaneous Injection**	INJ-SUB-Q	5.35
IP (intraperitoneal) Injection of Pristane (mice only)	PRISTANE	3.60

\*Pre-Dosing/Pre-Injection services do not include the price of the animal, shipping or container charges.

\*\*Customer-supplied injectable.

**2016 CUSTOMER PRICE**

Description	Code	Price
NEW Rapid Tags® (customer supplied tag)**	RAPID	5.00
Avid Brand Identification Chip - Subcutaneous Implant	AVIDTRANS	12.10
Biomed Brand Identification Chip - Subcutaneous Implant	BIOMEDTRNS	12.10
Ear Punch	EARPUNCH	3.80
Ear Tags	EARTAGS	3.80
Somark Labstamp® (mice only)	LABSTAMP ID	5.00
Tail Marking	TAILMARK	3.60
Tattoo	TATTOO	6.60

\*Pre-ID™ services do not include the price of the animal, shipping or container charges.

\*\* Charles River can supply the tag and service for \$10.50.

Description	Code	Price
Glucose Monitoring	GLUCOSE	6.25

\*Pre-Screening services do not include the price of the animal, shipping or container charges.

Description	Code	Price
Injection**	INJECT	5.35
IP (intraperitoneal) Injection**	INJ-IP	5.35
Subcutaneous Injection**	INJ-SUB-Q	5.35
IP (intraperitoneal) Injection of Pristane (mice only)	PRISTANE	3.60

\*Pre-Dosing/Pre-Injection services do not include the price of the animal, shipping or container charges.

\*\*Customer-supplied injectable.

# General Terms & Conditions of Sale ("Terms and Conditions")

Charles River Laboratories, Inc. and its affiliates ("**Charles River**") will provide the products ("**Products**") and services ("**Services**") described in the Charles River invoice, quotation, protocol, or statement of work as applicable ("**SOW**") and Charles River's customer ("**Customer**") will purchase the Products and Services pursuant to the specifications contained in the SOW and in accordance with these Terms and Conditions. These Terms and Conditions will also apply to all future purchases of Products and Services by Customer.

## 1. Binding Character

All sales and/or purchases of Products and Services are (a) governed by these Terms and Conditions and (b) made expressly conditioned upon Customer's acceptance of these Terms and Conditions.

Customer's acceptance of delivery of Products or Services will be deemed agreement to the Terms and Conditions.

No other document attempting to negate or otherwise modify the terms hereof, including any purchase order or request for proposal or any deviating or supplementing standard terms and conditions of Customer, will be binding upon Charles River unless expressly agreed to Charles River in writing. Instead these Terms and Conditions, including any special terms and conditions set forth separately as supplemented by any applicable provisions of Applicable Law, shall exclusively govern the sale of Products and Services by Charles River. This also applies if Charles River delivers Products or provides Services despite being aware of conflicting or additional standard terms and conditions of Customer.

## 2. Provision of the Products and Conduct of the Services

Charles River will adhere to all laws, rules and regulations applicable to the provision of the Products and the conduct of the Services at the place of performance ("**Applicable Law**").

If an amendment to the SOW requires additional or different work on the part of Charles River, Charles River may agree to conduct such work and will be paid an amount mutually agreed to by the parties. Deviations from the SOW may be made in an emergency without Customer's approval, provided that Charles River uses commercially reasonable efforts to obtain Customer's verbal approval, which will be subsequently confirmed by Customer in writing. The parties acknowledge that during the course of performing the Services in accordance with the SOW, additional costs may be incurred by Charles River as a result of procedural changes, which do not amount to, or require a change in, the SOW, but which are deemed necessary by Charles River to successfully perform the Services, and which could not be foreseen at the time of the preparation of the SOW. If such procedural change occurs, Charles River will advise Customer prior to implementation and solicit Customer's agreement as to the necessity and additional cost thereof. If Charles River is unable to contact Customer in advance, Customer agrees that in order to maintain the integrity of the Services, Charles River may proceed accordingly, and be entitled to recover such additional costs from Customer upon presentation of an explanation of such procedural changes and the necessity thereof.

## 3. Restrictions on Use and Breeding

Products will be used by Customer in a safe manner and in accordance with all Applicable Laws. Customer agrees and will ensure that all animals purchased from Charles River, descendants of those animals derived by inbreeding or crossbreeding, including unmodified derivatives of those animals or their descendants ("**Models**") will not be: (i) used for any purpose other than the internal research of Customer in compliance with Applicable Law, (ii) bred (for sale or otherwise) or provided to any third party for any use, or (iii) provided to any agent or other third party to provide breeding or other services, unless Charles River provides Customer with prior written authorization. For safety reasons, Customer will not, without the prior written consent of Charles River, return Products or shipping containers to Charles River.

The purchase of any Products conveys to Customer the non-transferable, non-sublicensable, non-exclusive right to internally use the Product and the components of the Products only in research conducted by Customer and specifically in accordance with the SOW. Customer cannot sell or otherwise transfer or make available to a third party the Products or their components or the Services for Commercial Purposes. "**Commercial Purposes**" means any activity for cash or other consideration including, but not limited to: (1) use of the Products or their components or materials made using the Products or their components in manufacturing, or to provide a service, information or data, or for clinical, therapeutic, diagnostic or prophylactic purposes or (2) resale of the Products or their components or materials made using the Product or its components, except by licensed distributors of Charles River, whether or not resold for use in research. The foregoing limitations are required by Charles River given the nature and sensitivity of the Products and Services provided by Charles River. To the extent that Charles River owns or controls (with the right to sublicense) patent rights or other intellectual property rights applicable to the Products or their intended use, those rights are licensed to Customer on a limited, revocable, non-exclusive, non-transferable and non-sublicensable basis only for the internal uses expressly permitted above and solely for the Products purchased. If Customer fails to comply with the foregoing limitations, in addition to any other remedies available to Charles River, the right of use granted under the preceding sentence will automatically terminate.

## 4. Compensation

Unless otherwise agreed to by the parties, prices will be as per the price list (if applicable, price of Models is based on highest weight range) on the day of delivery, and they do not include applicable taxes, packaging, insurance or shipment expenses. The price list may be reviewed by Charles River annually. Customer will pay Charles River as set forth in the SOW. All invoices are due and payable thirty (30) days from the date of the invoice without any deductions and Customer agrees to pay all invoices submitted. Customer will not withhold payment, assert a right of retention or set off any counterclaims unless Customer's counterclaims have been finally adjudicated by a competent court or have been acknowledged by Charles River in writing. All amounts not paid by Customer when due will accrue interest from the applicable due date until paid, at the highest rate permitted under Applicable Law. Charles River may also elect to cease or suspend

the supply of the Products, any work on the Services or withhold required reports or other deliverables if Customer does not make payments when due and payable.

All applicable termination, delay or cancellation fees will be set forth in the SOW.

If in the judgment of Charles River, Customer's financial condition is precarious or there has been a materially adverse change in Customer's financial condition, Charles River will have the right to demand payment or other assurances which it deems adequate before providing any Products and Services.

## 5. Test Article

Customer will provide Charles River with sufficient amounts of compounds, materials, animals, substances, devices and protocols meeting relevant specifications, including health and genetic data ("**Test Articles**") with which to perform the Services. Customer will provide Charles River with complete and accurate data to apprise Charles River of the identity, strength, purity, stability, composition or other characteristics, proper storage and safe handling requirements of the Test Articles, including a Material Safety Data Sheet or equivalent documentation. Customer will certify to Charles River that the methods of synthesis, fabrication, or derivation of the Test Article have been documented. All costs associated with shipping the Test Articles to Charles River will be the responsibility of Customer, and Charles River will not be responsible for any loss, damage or destruction of the Test Articles while in transit. All Test Articles and Products used in connection with the Services will remain the property of Customer.

## 6. Reports

Charles River will keep complete and accurate records of the status and progress of the Services if, and as required by, the SOW. Charles River will furnish a report or data containing information as specified in the SOW. All reports will be prepared in the standard format of Charles River.

Neither Charles River nor Customer will publish any report or data prepared for Customer by Charles River without the prior written consent of the other party, which will not be unreasonably withheld.

If Charles River provides electronic access to the data, records, reports and other documentation and Customer elects to use such electronic access, the use of such electronic access will be governed by Charles River's standard access terms and conditions which are available on request.

## 7. Inspections

Upon reasonable advance written notice and during regular business hours, Charles River will permit Customer to visit the Charles River facilities where the Services are performed to monitor Charles River's performance of the Services, in compliance with Charles River's biosecurity measures, taking into account Charles River's business requirements and ensuring an uninterrupted course of business at Charles River's premises.

Charles River will notify Customer as soon as practical in the event of any regulatory inspection of Charles River's facilities that directly impact the Services provided to Customer.

## 8. Ownership

Any inventions, techniques and intellectual property, technology, commercial and industrial secrets, regardless of whether patented or registered, for providing the Products or performing the Services are, and will remain, Charles River's exclusive property including, but not limited to, present and future documentation, scientific and technical data, test procedures and other information that is owned or licensed by Charles River and is not developed hereunder. Charles River will have the right to use concurrent control data as part of its general historical database. Any data, discoveries or inventions developed or generated, which directly relate to any information or materials provided by Customer hereunder including, without limitation, new data, uses, processes or compositions, will be the exclusive property of Customer. Charles River agrees to assist Customer in securing any patents, copyrights or other proprietary rights in such data, discoveries or inventions, and to perform all acts that may be reasonably required to vest in Customer all right, title and interest in such data, discoveries or inventions, and Charles River will be compensated at its standard rates for such assistance. All costs and expenses associated with establishing Customer's rights therein will be Customer's responsibility.

## 9. Archiving

All reports and supporting documentation resulting from the Services are Customer's property ("**Materials**"). Except as otherwise set forth in the SOW, and if requested in writing by Customer, Charles River will retain the Materials for a period of one year following the date of any final report, or for such shorter period as may be required by Applicable Law. At the end of such period, Charles River will contact Customer to determine disposition of the Materials as follows: (a) extended storage of the Materials; (b) return of the Materials to Customer at Customer's expense or (c) disposal of Materials at Customer's expense. If Customer requests Charles River to continue to store the Materials and Charles River agrees, the cost for storage of the Materials will continue to be invoiced to Customer at Charles River's then current rates. If Customer fails to give such instructions, Charles River will notify Customer, and if instructions are not forthcoming within thirty (30) days of said notification, Charles River will have the option of continuing to store the Materials or returning the Materials to Customer at Customer's expense. Customer will be liable for storage charges until the Materials are returned to Customer. While the Materials are in transit to Customer, all risk of loss or exposure to the Materials will be borne by Customer.

If the Materials require special storage requirements, additional charges for storage will be assessed and invoiced to Customer. Invoices will be issued annually in advance and are due and payable upon receipt.

## 10. Warranties

Customer warrants that it owns all rights, title and interest in the Test Articles furnished to Charles River and the intellectual property related thereto, and that Charles River's use of the Test Articles does not infringe any third party rights.

Charles River warrants that the Products and Services will conform to the specifications contained in the SOW and Applicable Law. Charles River does not warrant or represent that the results of the Services will be acceptable to any regulatory or governmental agency to which they are presented nor that the results of the Services will enable Customer to further develop, market or otherwise exploit the Test Articles or any other product or service.

THE WARRANTY BY CHARLES RIVER SET FORTH HEREIN IS IN LIEU OF ANY AND ALL OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS, IMPLIED OR STATUTORY INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, SUITABILITY OF THE PRODUCTS AND SERVICES FOR CUSTOMER'S PURPOSES, IMPACT OF THE PRODUCTS AND SERVICES ON CUSTOMER'S OPERATIONS, OR NON-INFRINGEMENT OF A PATENT, TRADEMARK OR OTHER INTELLECTUAL PROPERTY RIGHT.

Any claim for breach of this warranty must be made in writing to Charles River within ten (10) business days after the Products are delivered or the completion of Services, after which time the Products or Services will be deemed finally accepted.

Risk of loss and title to the Products will pass to Customer once the Products leave Charles River's facility or are delivered to a common carrier, as applicable.

## 11. Limitation of Liability

Charles River will not be liable for penalties or liquidated damages or for special, indirect, consequential punitive, exemplary or incidental damages of any type or kind (including, without limitation, lost profits) regardless of whether any such losses or damages are characterized as arising from breach of contract, breach of warranty, tort, negligence, strict liability or otherwise, even if Charles River is advised of the possibility of such losses or damages, or if such losses or damages are foreseeable.

Charles River's liability, regardless of the form of action, will be limited to actual and foreseeable damages and will not exceed the total price paid for the Products or Services pursuant to which such liability arises. Charles River will not be liable for any damages arising from, or in connection with, any decision by Customer or any third party to further research, develop or market the Test Articles or any derivative or product or service related thereto, or the use made of the Products, Services or Test Articles derivative or service related thereto.

Subject to the limitations set forth in this Section, if Charles River commits a breach of the warranty set forth above, Charles River's sole liability, and Customer's sole remedy will be for Charles River to replace the Products or issue a credit therefore, or conform the work or portion of the Services affected by the breach to the relevant specification.

## 12. Indemnities

Customer will defend, indemnify, save and hold harmless Charles River and its parent, subsidiaries and affiliates and their respective directors, officers, employees and agents from and against any claims, demands, suits, actions, causes of action, losses, damages, fines and liabilities, including reasonable professional fees ("Claim") arising out of or in connection with or attributable to (a) the research, development, manufacture, distribution, use, sales or other disposition by Customer, or any distributor, collaborator, Customer, sublicense, representative or agent of Customer, of the Test Articles and/or any other substances upon which the Services were performed or any use made of the Products, or (b) any infringement of any third party's patent or other intellectual property rights or unauthorized use or misappropriation of its know-how or trade secrets, or (c) Customer's gross negligence or willful misconduct, or breach of this agreement or (d) personal injury related to contact with the Products during visits to Charles River's facilities or after delivery of the Products to Customer, and will pay any costs and damages which, by final judgement, after exhaustion of all reasonable appeals, may be assessed against them, provided that Customer is given written notice of the Claims within five (5) days of the date of notice to Charles River and is given information, reasonable assistance and sole authority to defend and/or settle the Claim.

## 13. Insurance

Each party will have insurance sufficient to cover its interest or potential liabilities hereunder including, but not limited to, worker's compensation, if applicable, and comprehensive general liability.

## 14. Confidentiality

In the course of providing the Products or performing the Services, Charles River and Customer may exchange proprietary and confidential information. The parties will identify, in writing, such information as confidential and/or proprietary. If a party intends to disclose confidential information to the other party orally, the disclosing party will (i) alert the other party of the confidential nature of the disclosure prior to the disclosure and (ii) provide written notice to the other party of the confidential nature and contents of such disclosure within ten (10) days of the original disclosure. Each party will use its commercially reasonable efforts to maintain such information in confidence and will employ reasonable and appropriate procedures to prevent its unauthorized publication or disclosure unless required by Applicable Law to disclose such information. Neither party will use the other party's proprietary and/or confidential information for any purpose other than in performance of this Agreement. The obligations of confidentiality set forth in this Section will survive termination or expiration of this Agreement for a period of five (5) years.

The confidentiality provisions in this Section will not apply to any part of such information, which (i) is known to the receiving party at the time it was obtained from the disclosing party; (ii) is acquired by receiving party from a third party, and such third party did not obtain such information directly or indirectly from the disclosing party under obligation not to disclose; (iii) is or becomes published or otherwise in the public domain other than by violation of this Agreement by the receiving party; (iv) is independently developed by the receiving party without reference to or reliance upon the information provided by the disclosing party; or (v) is required to be disclosed by the receiving party to comply with applicable laws or governmental regulations; provided that the receiving party provides prompt written notice of such disclosure to the disclosing party and cooperates with the disclosing party's reasonable and lawful actions to avoid and/or minimize the extent of such disclosure.

## 15. Termination

Unless otherwise specified in the SOW, Customer will have the right to terminate the SOW at any time without cause upon thirty (30) days prior written notice to Charles River. In the event of such termination, Charles River will be paid for all Products provided or Services rendered through the effective date of termination, together with any additional expenses incurred in connection with the shutdown of the Services including, without limitation, any irrevocably committed costs and any cancellation or termination fee set forth in the SOW.

Either party may terminate these Terms and Conditions or SOW, as applicable, at any time upon thirty (30) days prior written notice to the other party, for material breach of the Terms and Conditions by the other party if such breach is not remedied to the non-breaching party's reasonable satisfaction within the thirty (30) day notice period.

Upon termination, neither party will have any further obligations, except that (i) the liabilities accrued through the date of termination and (ii) the obligations which by their terms survive termination, including the applicable confidentiality, record keeping, regulatory compliance, intellectual property and indemnification provisions of these Terms and Conditions, will survive termination.

## 16. Force Majeure

Except with respect to the payment of any amount due hereunder, neither party will be considered in default of the performance of any obligation hereunder to the extent that the performance of such obligation is prevented or delayed by fire, flood, earthquake, hurricane, explosion, disease, contamination, strike, acts of terrorism, war, insurrection, embargo, government requirement, civil or military authority, animal activism, act of God, or any other event, occurrence or condition which is not caused, in whole or in part, by that party, and which is beyond the reasonable control of that party.

## 17. Governing Law and Dispute Resolution

These Terms and Conditions and any dispute arising from or in connection with the sale of the Products and/or Services are governed by, and will be construed in accordance with, the laws of Delaware, excluding the United Nations Convention on the International Sale of Goods and without regard to any choice of law principle that would dictate the application of the law of another jurisdiction.

The parties will attempt to resolve through negotiations any controversy, claim, or dispute arising out of or in connection with these Terms and Conditions or its validity. If the negotiations are not successful, the controversy, claim, or dispute will be submitted to third-party mediation upon terms reasonably acceptable to the parties. If such claim, controversy or dispute is not resolved through mediation, upon written demand of either party, the claim, controversy or dispute will be submitted to arbitration. Such arbitration will take place in Boston, Massachusetts, will be conducted in English, and will proceed in accordance with the United Nations Commission on International Trade Law Arbitration Rules in force from time to time. A record and transcript of the proceedings will be maintained. Any award will be made in writing and in reasonable detail, setting forth the findings of fact and conclusion of law supporting the award. The determination of a majority of the panel of arbitrators will be the decision of the arbitrators, which will be binding regardless of whether one of the parties fails or refuses to participate in the arbitration. The arbitrators will decide on the recovery of the costs of the arbitration, except expert and attorneys' fees.

## 18. Miscellaneous

All notices from one party to the other will be in writing. Notices will be sent by internet transmission, overnight courier, or certified mail, return receipt requested. All notices will be effective upon receipt.

The business relationship of Charles River to Customer is that of an independent contractor and not of a partnership, joint venture, employer, agent or any other kind of relationship.

These Terms and Conditions, and the rights and obligations hereunder, may not be assigned or transferred by either party without the prior written consent of the other party.

These Terms and Conditions, together with the SOW, set forth the entire agreement and understanding between the parties, superseding any and all previous statements, negotiations, documents, agreements and understandings, whether oral or written, as to the subject matter hereof.

In the event that any one or more of the provisions contained in these Terms and Conditions is held to be invalid, illegal or unenforceable in any respect, that invalidity, illegality or unenforceability will not affect any other term or condition, and all other terms and conditions will remain in full force and effect.

## 19. Intellectual Property

Charles River® and Charles River Laboratories® are registered trademarks of Charles River Laboratories, Inc. VAF/Plus®, VAF/Elite®, BlastoKit®, CD®, CD-1®, CFW®, Gnoto-safe®, SHO®, THE POUND MOUSE®, Multiplexed Fluorometric ImmunoAssay® (MFA®), i-CRYO®, EZ-Spot®, Laboratory Testing Management® and MAX-BAX® are registered trademarks of Charles River Laboratories, Inc. CDF™, CF-1™, EAD™, PRIA™, Sew Easy™, ICM™ and LTM™ are trademarks of Charles River Laboratories, Inc. The SourceSM is a service mark of Charles River Laboratories, Inc. Sprague Dawley® is a registered trademark of Harlan Sprague Dawley, Inc., Indianapolis, IN. SD™ is a Harlan Sprague Dawley trademark. Fox Chase SCID® is a registered trademark of the Fox Chase Cancer Center. Fox Chase CB17™ is a trademark of the Fox Chase Cancer Center. HydroGel™ is a trademark of ClearH2O®. Immortomouse® is a registered trademark of the Ludwig Institute for Cancer Research. TARGATT™ is a trademark of Applied StemCell. Polymerase Chain Reaction (PCR) analysis is performed pursuant to licensing arrangements with Roche Molecular Systems, Inc. and The Perkin-Elmer Corporation. Microsatellite analysis is performed pursuant to licensing arrangements with the Marshfield Clinic. Purina #5008 is a trademark of Nestle Purina Petcare Company. Research Diets is a trademark of BioDAQ®. genOway® is a registered trademark of genOway S.A., Lyon, France. OpenArray® is a registered trademark of Biotrove, Inc. RODAC™ is a trademark of Becton, Dickinson and Company. TaqMan® is a registered trademark of Roche Molecular Systems, Inc. © Charles River Laboratories, Inc., 2016.

## 20. Language

The parties acknowledge that they have required that the Terms and Conditions, as well as all documents, notices and legal proceedings executed, given or instituted pursuant to or relating directly or indirectly hereto, be drawn up in English.