



Price list for NCI grantees

Effective January 1, 2021

Together, we can secure the potential of research and products.

As a trusted global supplier of animal research models, Envigo will continue to support you via our pricing specific to NCI Grantees.

Envigo's 2020 offer includes:

- + Envigo is pleased to extend special pricing for selected models and services to NCI Grantees through December 31, 2021 (see details in this NCI Grantee Price Guide); price includes freight and container
- + For orders of \$65.00 or less, a \$70.30 surcharge will be assessed
- + Air freight, if applicable, billed separately at quoted rates
- + Bridging study animals provided at no cost (subject to Envigo's standard procedures)

Because of Envigo's extensive network of production facilities, you may find Envigo is your local supplier, able to offer alternate days of delivery to your facility via a fleet of environmentally-controlled vehicles. [Click here](#) for Envigo's production locations, which are listed on [envigo.com](#).

Health status reports for Envigo models are always available at [envigo.com/healthreports](#).

Our customer service representatives and your Envigo Account Executive look forward to supporting you. Place your order by emailing csdorders@envigo.com.

Learn about all Envigo models and services via our 2021 Product Guide. For Envigo models not in our NCI grantee Price List, Envigo offers a New Customer* 50% discount on standard list price of first orders. [Click here](#) for more information on our Grant Promotion program or go to [envigo.com](#).

Direct questions or orders for Research Models and Services to:

Envigo

8520 Allison Pointe Blvd., Suite 400
Indianapolis, IN 46250
Attn: Customer Service Department

T 800.793.7287
F 317.806.6090
E csdorders@envigo.com

[envigo.com/orders](#)

See Page 8 for full ordering information

*New customers are identified as Grantees (Principal Investigators) who have not placed an order with Envigo within previous six months. Promotion is good for one order. Promotion excludes Surgical Procedures and all models and services not listed on Envigo's NCI Grantee Price List. Not applicable to Pharmaceutical or CRO institutions.

PLEASE USE CODE
"NCI" WHEN ORDER
IS PLACED TO OBTAIN
GRANTEE PRICING

Inbred mice



MODEL CODE
049



MODEL CODE
047

A
 NOMENCLATURE A/JOl^aHsd
 NCI STRAIN A/JCr

AGE (WEEKS)	Price per animal	
	MALE	FEMALE
3-4	\$30.90	\$30.90
4-5	\$30.90	\$30.90
5-6	\$30.90	\$30.90
6-7	\$30.90	\$30.90
7-8	\$30.90	\$30.90
Retired breeder	\$22.60	\$22.60
Untimed pregnant		\$120.45
Female with litter		\$150.55

* For our pregnant animal policy, refer to page 85.

Albino. From G.D. Searle to Harlan Olac, United Kingdom, in 1978; to Harlan, United States, in 1993. Harlan became Envigo in 2015.

BALB/c
 NOMENCLATURE BALB/cAnNHsd
 NCI STRAIN BALB/cAnNCr

AGE (WEEKS)	Approx. Weight (g)		Price per animal	
	MALE	FEMALE	MALE	FEMALE
3-4	23-26	13-14	\$21.25	\$21.25
4-5	27-31	15-16	\$21.25	\$21.25
5-6	32-38	17-18	\$21.25	\$21.25
6-7	39-49	19-21	\$21.25	\$21.25
7-8	50-70	22-24	\$21.25	\$21.25
Untimed pregnant*				\$113.00
Female with litter				\$150.55
Retired breeder			\$15.75	\$16.15

* For our pregnant animal policy, refer to page 85.

Albino. Derived from a nucleus colony obtained from the National Institutes of Health, Bethesda, Maryland.

Characteristics

- Litter average: 6.0
- Docile disposition
- Haplotype: *H-2^d*
- Experimental allergic encephalomyelitis resistant

Inbred mice



MODEL CODE
040



MODEL CODE
044

C3H

NOMENCLATURE C3H/HeNHsd
NCI STRAIN C3H/HeNCr MTV-

AGE (WEEKS)	Price per animal	
	MALE	FEMALE
3-4	\$23.50	\$23.50
4-5	\$23.50	\$23.50
5-6	\$23.50	\$23.50
6-7	\$23.50	\$23.50
7-8	\$23.50	\$23.50
Retired breeder	\$16.85	\$16.85
Untimed pregnant		\$120.45
Female with litter		\$150.55

* For our pregnant animal policy, refer to page 85.

Albino. Derived from a nucleus colony obtained from the National Institutes of Health, Bethesda, Maryland.

Characteristics

- Litter Average: 5.0
- Haplotype: *H-2^K*
- Carrier of the retinal degeneration (*Pde6brd*) mutation
- Normal response to LPS
- Highly susceptible to Anthrax toxin

C57BL/6

NOMENCLATURE C57BL/6NHsd
NCI STRAIN C57BL/6NCr

AGE (WEEKS)	Approx. Weight (g)		Price per animal	
	MALE	FEMALE	MALE	FEMALE
3-4	Up to 12	Up to 12	\$21.95	\$22.60
4-5	13-15	13-15	\$21.95	\$22.60
5-6	16-18	16-18	\$21.95	\$22.60
6-7	19-21	19-21	\$21.95	\$22.60
7-8	22-24	22-24	\$21.95	\$22.60
Untimed pregnant*				\$113.00
Female with litter				\$135.50
Retired breeder			\$16.05	\$16.55

* For our pregnant animal policy, refer to page 85.

Black. Derived from a nucleus colony obtained from the National Institutes of Health, Bethesda, Maryland.

Characteristics

- Litter average: 6.0
- Haplotype: *H-2^b*
- Most widely-used inbred strain
- Low tumor incidence
- High preference for alcohol
- Microphthalmia
- Incidence of microphthalmia

Inbred/Hybrid mice



MODEL CODE
118



MODEL CODE
063

FVB

NOMENCLATURE FVB/NHsd
NCI STRAIN FVB/NCr

Price per animal

AGE (WEEKS)	MALE	FEMALE
3-4	\$21.25	\$21.25
4-5	\$21.25	\$21.25
5-6	\$21.25	\$21.25
6-7	\$21.25	\$21.25
7-8	\$21.25	\$21.25
Retired breeder	\$16.15	\$16.15
Untimed pregnant		\$113.00
Female with litter		\$130.05

* For our pregnant animal policy, refer to page 85.

Albino. Derived from a nucleus colony obtained from the National Institutes of Health, Bethesda, Maryland, in 1988.

B6D2F1

NOMENCLATURE B6D2F1/Hsd
NCI STRAIN B6D2F1/Cr

Price per animal

AGE (WEEKS)	MALE	FEMALE
3-4	\$22.60	\$22.60
4-5	\$22.60	\$22.60
5-6	\$22.60	\$22.60
6-7	\$22.60	\$22.60
7-8	\$22.60	\$22.60
Female C57BL/6NHsd with B6D2F1 hybrid litter		\$120.45

* For our pregnant animal policy, refer to page 85.

Black. Offspring of a cross between the C57BL/6NHsd inbred female and the DBA/2NHsd inbred male.

Oncology portfolio

Proven performance. Globally referenced.

Researchers choose Envigo oncology models for tumor uptake and growth.

Our models have been extensively referenced by leading institutions around the world.

MODEL	PAGE	HAIR	T CELLS	B CELLS	NK CELLS
Athymic Nude Mouse	8	No	Nonfunctional	Functional	Functional
SCID Mouse	9	Yes	Nonfunctional	Nonfunctional	Functional
NOD.SCID Mouse	9	Yes	Nonfunctional	Nonfunctional	Impaired
Athymic Nude Rat	10	No	Nonfunctional	Functional	Functional

Models Global availability of high-quality models with proven performance in tumor growth.

envigo.com/models

Diets Largest global provider of lab animal diets designed to minimize research variables.

envigo.com/teklad

Services Tumor models and services, Custom model generation, genetic testing, and antibody production.

envigo.com/oncoservices

Oncology portfolio

Choose the right rodent model for your oncology research.

Below is a representation of the cell lines used successfully with Envigo models.

For access to a full listing and references* from peer-reviewed journals, please visit envigo.com/onco

Rodent tissue	Cell lines	Nude mice	SCID mice	Nude rats	C57 mice
Brain (rat glioma)	C6 ^{58, 59, 78, 140, 180}	+	+		
Liver	MC38-Luc1 ³⁸⁷				+
Lung (murine)	LL2 ¹⁰	+			
Lymphoma	E.G7-OVA ³⁷³				+
Melanoma (murine)	B16F10 ^{35, 36, 250}	+			

Patient-derived tumors (Human tissue)	Cell lines	Nude mice	SCID mice	Nude rats
Brain	(PDX) ²⁷¹	+		
Breast	HBCX 1 ²⁷⁰	+		
	HBCX 6 ²⁷⁰	+		
	HBCX 7 ²⁷⁰	+		
	HBCX 9 ²⁷⁰	+		
	TNBC (MC1) ²⁷³		+	
	MC1 ²⁷⁴		+	
	BMC-2147 ²⁷⁴		+	
Liver	AKH23 ³⁰⁷		+	
	KFJ18 ³⁰⁷		+	
Lung	(NSCLC PDX) ²⁷²		+	
Pancreatic	JH033 ²⁷²	+		

Evaluate our tumor growth rates by visiting our online library of *in vivo* tumor growth data at envigo.com/tumor

* Superscript numbers correspond to publication references on the online cell line reference tool.

Human tissue	Cell lines	Nude mice	SCID mice	Nude rats	Rag2
Bladder	KU-7 ^{148, 149, 150, 151}	+			
	T24 ⁵²			+	
Brain	A-172 ¹⁹⁸	+			
	G55 ³			+	
	HTLA-230 ^{5, 125}	+	+		
	SH-SY5Y ²			+	
	TB10 ²⁰⁰	+			
	U251 ^{81, 202}	+			
	U251 MG ^{198, 199}	+			
	U251-NG2 ^{1, 285}	+			
	U87 ^{71, 81, 117, 173, 196}	+	+		+
	U87ΔEGFR ¹⁹⁷	+			
	U87 MG ^{4, 78, 80, 83, 133, 134, 164, 195, 198, 201, 205, 206, 209, 224, 249}	+	+	+	
	U87Fluc ^{79, 82}	+			
	U87MG.wt EGFR ²⁰³	+			
U87-TARTK ²⁰⁸			+		
U138MG ^{203, 266}	+	+			
U373 ²⁰⁷				+	

Human tissue (Cancer stem cells)	CSC designation	Nude mice	SCID mice	Nude rats
Brain	BTSC83 ²⁰⁰	+		
	LA-N-5 ²³¹	+		
	NGC-407-GFP ²⁰⁶			+
	U87-SC ²³²	+		
Breast	2LMP (MDA-MB-231 subclone) ²³⁴		+	
	MCF-7 (CSC-like) ²³⁶	+		
	MCF-7 (mammospheres) ²³⁵	+		
	SUM159 ²³⁴		+	
Lung	A549 ¹⁰⁸	+		
	H1299 ¹⁰⁸	+		
Ovarian	SKOV-3 (spherical cells) ²¹³	+		
Prostate	DU-145 (spheroid cells) ²³³			+

Mutant mice – Nudes



MODEL CODE
069

MODEL CODE
070



Athymic Nude

NOMENCLATURE Hsd:Athymic Nude-*Foxn1^{nu}*
NCI STRAIN Athymic NCr-nu/nu

Price per animal

AGE (WEEKS)	Price per animal	
	MALE	FEMALE
3-4	\$55.90	\$55.90
4-5	\$55.90	\$55.90
5-6	\$55.90	\$55.90
6-7	\$55.90	\$55.90
7-8	\$55.90	\$55.90
Retired breeder	\$55.05	

**When packing males, all animals will need to be packed as cage mates only.

Albino. Derived from a nucleus colony obtained from the National Cancer Institute, Frederick, Maryland.

This immunodeficient model was originally thought to be a BALB/c congenic, but was later reported by NCI to be outbred.

Characteristics

- The *nu* allele on chromosome 11 is an autosomal recessive mutation
- Dysfunctional rudimentary thymus
- Phenotypically hairless (sparse hair growth possible)
- T-cell deficient
- B cells function normal
- No generation of cytotoxic effector cells
- No graft versus host response
- Nude-*Foxn1^{nu}/Foxn1* heterozygotes do not show partial expression of the *nu* phenotype

Athymic Nude - heterozygous

NOMENCLATURE Hsd:Athymic Nude-*Foxn1^{nu}/Foxn1⁺*
NCI STRAIN Athymic NCr-nu/+

Price per animal

AGE (WEEKS)	Price per animal	
	MALE	FEMALE
3-4	\$33.50	\$33.50
4-5	\$33.50	\$33.50
5-6	\$33.50	\$33.50
6-7	\$33.50	\$33.50
7-8	\$33.50	\$33.50
Untimed Pregnant	\$206.75	
Female with Litter	\$221.45	
Retired breeder	\$22.55	

* For our pregnant animal policy, refer to page 85.

Albino. Derived from a nucleus colony obtained from the National Cancer Institute, Frederick, Maryland.

This animal model is heterozygous for the *nu* mutation and is haired. Immune-competent control model.

Mutant mice



MODEL CODE
170

MODEL CODE
182



NOD.SCID

NOMENCLATURE NOD.CB17-*Prkdc*^{scid}/NcrHsd
NCI STRAIN SCID/Ncr

SCID

NOMENCLATURE C.B-17/IcrHsd-*Prkdc*^{scid}
NCI STRAIN SCID/Ncr

AGE (WEEKS)	Price per animal
3-4	\$96.05
4-5	\$96.05
5-6	\$96.05
6-7	\$96.05
7-8	\$96.05
Retired Breeder	\$81.20

AGE (WEEKS)	Price per animal
3-4	\$70.80
4-5	\$70.80
5-6	\$70.80
6-7	\$70.80
7-8	\$70.80
Retired Breeder	\$66.45

**When packing males, all animals will need to be packed as cage mates only.
Albino. Received by National Cancer Institute, Frederick, Maryland in 2004 from National Institutes of Health, Bethesda, Maryland. Harlan acquired from National Cancer Institute in 2006. Harlan became Envigo in 2015.

**When packing males, all animals will need to be packed as cage mates only.
Albino. Harlan acquired from the Fox Chase Cancer Center, Philadelphia, Pennsylvania, in 1991. Harlan became Envigo in 2015.

Characteristics

- Autosomal-recessive, single-nucleotide polymorphism within *Prkdc* gene on chromosome 16
- Severe combined immunodeficiency affecting T- and B-cell development
- Natural Killer (NK) cell, macrophage and granulocyte cell numbers and function are reduced
- As SCID mice age, a variable percentage become "leaky" from spontaneous development of functional T- and B-lymphocytes
- Highly susceptible to opportunistic viral and bacterial infection
- Development of autoimmune diabetes does not occur due to severe combined immunodeficiency
- Spontaneous thymic lymphomas

Characteristics

- Autosomal-recessive, single-nucleotide polymorphism within *Prkdc* gene on chromosome 16
- Severe combined immunodeficiency affecting T- and B-cell development
- Natural Killer (NK) cell, macrophage, and granulocyte cell numbers and function are normal
- As SCID mice age, a variable percentage become "leaky" from the spontaneous development of functional T- and B-lymphocytes
- Highly susceptible to opportunistic viral and bacterial infection

Mutant rats



MODEL CODES
005, 006

Athymic Nude

NOMENCLATURE Hsd:RH-Foxn1^{nu} (Code 005)

NOMENCLATURE Hsd:RH-Foxn1^{nu}/Foxn1⁺ (Code 006)

NCI STRAINS Cr:NIH-RNU; Cr:NIH-RNU/+

Price per animal

AGE (WEEKS)	Price per animal	
	<i>nu/nu</i>	<i>nu/+</i>
3-4	\$134.20	\$60.90
4-5	\$134.20	\$60.90
5-6	\$134.20	\$60.90
6-7	\$134.20	\$60.90
7-8	\$134.20	\$60.90
8-9	\$136.90	\$64.55
9-10	\$139.55	\$68.05
Retired Breeder	\$96.05	\$96.05
Untimed Pregnant		\$214.85
Female with litter		\$221.45

Hooded (pigmented). Derived from animals obtained from the Rowett Research Institute, Aberdeen, Scotland.

Characteristics

- The *nu* allele on chromosome 10 is an autosomal recessive mutation associated with hairlessness and thymic aplasia
- The thymus-dependent lymph node areas are depleted of lymphocytes (T-cells)
- Phenotypically hairless (sparse hair growth possible)
- Rudimentary thymic tissue
- Increased Natural Killer (NK) cell population
- Foxn1^{nu}/Foxn1⁺ heterozygotes do not show partial expression of *nu* phenotype

Ordering information

Direct orders for Research Models and Services to:

Envigo
8520 Allison Pointe Blvd.,
Suite 400
Indianapolis, IN 46250
Attn: Customer Service Department

T 800.793.7287
F 317.806.6090
E CSDorders@envigo.com

Please use code "NCI" when order is placed to obtain Grantee pricing.

NCI Grantee pricing is available through December 31, 2021 unless otherwise stated. Otherwise Envigo list prices are subject to change without notice. Current pricing will be listed on envigo.com. Major price and product line changes will be communicated to customers with a 30-day notification via e-mail. Terms are granted by individual review and stated on customer invoices and account statements. Unless otherwise requested, shipping charges will be prepaid and added to your invoice.

Shipping

Our standard shipping is via environmentally-controlled vehicles. Our vehicles, ranging in size from sprinter vans to semitractor trailer units, make regularly scheduled deliveries over a network of truck routes encompassing most of North America. Air shipments will be made from airports located near our production facilities.

Weight Specifications

In the event that an order for animals includes a weight specification, Envigo will assume that such specification pertains to the packaging weight. The customer must take this into account when placing an order. It is known that animals may experience weight changes during transport. Depending on the age, sex, and developmental status of the animal as well as the duration of the transport itself, animals may lose or gain weight during transport. In almost all cases, animals will return to their weight at shipping within 24–48 hours after arrival. This statement is to be used as a guideline only as the rate of weight recovery may be strain-specific and is also influenced by external factors, e.g. maintenance on arrival in a new facility, diet composition, and/or position of individuals in a new animal hierarchy. Contact our Customer Service Department for animals required with a narrowly-defined weight range.

Special Services

If special pre-shipment animal treatment is required, please let us know at the time your order is placed so that your animals will arrive in the condition specified.

Use of Envigo's Animals

Animals purchased from Envigo or the offspring of these animals may not be bred for sale or sold, transferred, licensed or otherwise provided to any party aside from the original purchaser. Animals purchased from Envigo are for research use only.

Pregnant animal policy

Envigo uses well-established techniques to successfully produce time mated rats, mice and hamsters. We use an Impedance Meter for determining the stage of estrus in rats prior to breeding. Time mated rats and mice are determined by observation of a vaginal plug. Plug date is considered to be day zero (0) of gestation. Due to the natural variation in the length of gestation, the exact day of parturition cannot be guaranteed. In addition, Envigo cannot guarantee the minimum number of offspring per litter. Please be aware that late-term pregnant animals may deliver their litter prematurely while in transit, and depending on the circumstances involved, requests for credit or replacement of these animals may be declined at our sole discretion.

If problems regarding gestational age or pregnancy are encountered, customers should immediately contact Envigo's Customer Service Department and provide detailed information regarding the animals involved.

Expected pregnancy rate

	Timed mated <13 days gestation (at shipping)	Timed mated ≥13 days gestation (at shipping)	Untimed pregnant ≥13 days gestation (at shipping)
STOCK OR STRAIN			
All Outbred Rats/Mice	*	90%	90% **
All Inbred Rats/Mice	*	90%	90% **

* Plug guarantee only; no guaranteed pregnancy. Plug date = Day 0.

** Untimed pregnant rodents will be selected from our breeding colonies on the basis of palpation or visual confirmation. A variation of three to four days gestation can be expected. Therefore, Envigo cannot be held responsible for actual gestation and/or exact day of littering.

To avoid charges, cancellations for timed mated animals must be received one week prior to mating date.

Please note

Envigo reserves the right to require substantiation of grant status.

Microbiological testing

Microbiological monitoring

The Envigo comprehensive monitoring program includes monthly evaluations of barrier-produced rodents and monthly or quarterly evaluations of flexible-film isolator-produced rodents.

Updated health reports are available at:
envigo.com/healthreports

Microbiological evaluation mouse serology

- Cilia Associated Respiratory Bacillus
- *Clostridium piliforme*
- Ectromelia
- *Encephalitozoon cuniculi*
- Hantaan virus
- Lactic Dehydrogenase-Elevating Virus (LDEV)
- Lymphocytic Choriomeningitis (LCM)
- Mouse Adenovirus 1 + 2
- Mouse Cytomegalovirus (MCMV)
- Mouse Hepatitis Virus (MHV)
- K Virus
- Minute Virus of Mice (MVM)
- Mouse Norovirus (MNV)
- Mouse Parvovirus (MPV)
- Mouse Rotavirus (EDIM)
- Mouse Thymic Virus (MTV)
- *Mycoplasma pulmonis*
- Polyoma
- Pneumonia Virus of Mice (PVM)
- Reovirus 3 (Reo-3)
- Sendai
- Theiler's Mouse Encephalomyelitis (TMEV)

Rat serology

- Cilia Associated Respiratory Bacillus
- *Clostridium piliforme*
- *Encephalitozoon cuniculi*
- Hantaan virus
- Kilham Rat Virus (KRV)
- Lymphocytic Choriomeningitis (LCM)
- Mouse Adenovirus 1 + 2
- *Mycoplasma pulmonis*
- Pneumonia Virus of Mice (PVM)
- Rat Coronavirus (SDA/RCV)
- Rat Parvovirus (RPV)
- Rat Minute Virus (RMV)
- Rat Theiler Virus (RTV)
- Reovirus 3 (Reo-3)
- Sendai
- Toolan's H-1 (H-1)

Hamster serology

- *Clostridium piliforme*
- *Encephalitozoon cuniculi*
- Lymphocytic choriomeningitis (LCM)
- Pneumonia Virus of Mice (PVM)
- Reovirus 3 (Reo-3)
- Sendai
- Simian Virus 5

PCR

- *Campylobacter jejuni* (Hamsters only)
- *Corynebacterium bovis* (Immunodeficient mice only)
- *Lawsonia intracellularis* (Hamsters only)
- *Helicobacter* spp
- *Pneumocystis* spp
- *Streptobacillus moniliformis*

Microscopic evaluations

- Ectoparasites
- Endoparasites
- Enteric protozoan

Cultures from the nasopharynx or cecum are routinely cultured for the presence of the following microorganisms:

- *Bordetella bronchiseptica*
- *Citrobacter rodentium*
- *Corynebacterium kutscheri*
- Dermatophytes (hair)
- *Klebsiella oxytoca*
- *Klebsiella pneumoniae*
- *Pasteurella multocida*
- *Pasteurella pneumotropica*
- *Proteus mirabilis* (isolator-produced rodents only)
- *Pseudomonas aeruginosa*
- *Salmonella* spp
- *Staphylococcus aureus*
- *Streptobacillus moniliformis*
- *Streptococcus pneumoniae*
- *Streptococcus* spp Group B beta

The lists of bacteria included in routine health monitoring reports vary according to species.

Current microbiological monitoring reports and cumulative summaries are provided upon delivery of our animals, or can be reviewed on our website. Reports are also available on request for each animal shipment. Significant changes in health status are promptly reported to customers by phone, fax, or email.

Quality programs

Envigo is unique among suppliers of research models and services in the breadth of our programs for providing quality products and services to reduce variables to help you do research better.

Diet manufacturing facilities in North America and animal production facilities in Europe and Israel are ISO 9001 certified. North American animal production facilities follow standard operating procedures aligned with the ISO 9001 standard, but are not ISO certified, and are fully accredited to AAALAC International. Our Dutch animal operations are both ISO and AAALAC certified.

Please visit envigo.com to view a list of all certifications and accreditations for all Envigo diet manufacturing and animal production sites globally.

Animal welfare envigo.com/animalwelfare

Envigo is dedicated to the humane care and use of research animals. The IACUC and dedicated veterinary staff manage policies and procedures to ensure that all animal use is performed in accordance with the highest standards.

These include AAALAC International accreditation, assurance of compliance with PHS/OLAW policy, and USDA Animal Care registration.

All animal production sites in the US are covered by a PHS Assurance and we are

fully USDA registered. Globally, all Envigo Laboratories sites maintain compliance with national animal welfare regulations. All EU animal operations comply with the European Directive 2010/63/EU.

Diet and bedding monitoring envigo.com/teklad

Teklad standard laboratory animal diets meet the highest nutritional and hygiene standards. All diets are manufactured under ISO 9001 procedures with careful ingredient sourcing and monitoring.

Many diets are offered certified for contaminant analysis. High-quality bedding and bedding enrichment products are manufactured following appropriate quality standards and screened periodically for contaminants, and can be certified on request.

Health monitoring envigo.com/healthreports

We are committed to providing the highest quality animals to the research community and our health testing program provides you assurance of that commitment.

If any significant changes occur in colony genetic, health or microbiologic status, customers are notified upon confirmation. Animal colonies will be restarted to

eliminate significant pathogens or genetic contamination.

Microbiologically-defined rodent colonies are maintained within production barriers and flexible-film isolators. Colonies are monitored daily by trained personnel supported by our veterinary medical staff for clinical signs of disease or abnormalities.

Our health surveillance program in Europe is based on 2014 FELASA recommendations. Monitoring is carried out at our laboratories in UK and Italy as well as by outside laboratories.

Genetic monitoring envigo.com/GIAP

Envigo's global routine genetic monitoring program consists of collecting tissue samples quarterly in North America, Israel, and Europe from all new pedigreed Foundation Colony breeding cages in non-isolator-bred colonies. Tests are conducted on all pedigreed Foundation Colony breeding cages in newly-populated isolator-bred colonies, and then five (5) new Foundation Colony breeder cages annually thereafter. Routine genetic monitoring is also performed on several outbred stocks to determine heterogeneity and compare colonies across locations globally. In addition, various mutant models on either outbred or inbred backgrounds are tested annually to confirm the mutation of interest.

For any questions or reports, please contact our Veterinary Sciences, Research and Support team at RMSTechnicalServices.na@envigo.com or 800.793.7287.

Custom antibody production envigo.com/bioproductions

Custom antibody production facilities in North America are cGMP compliant (21CFR Parts, 210, 211, and 820).

For any questions, please contact BPS at Bioproducts.na@envigo.com, or 800.972.4362.

ENVIGO TERMS AND CONDITIONS

GENERAL TERMS AND CONDITIONS

Envigo shall provide the products ("Products") and services ("Services") described in the Envigo invoice, quotation, order acknowledgement, protocol, price list, statement of work or other commercial document utilised by Envigo from time to time, to describe the Products or Services ("Envigo Document"), and customer shall purchase the Products and Services pursuant to the specifications contained in the Envigo Document and in accordance with the following terms and conditions:

I. BINDING CHARACTER

All sales and/or purchases of Products and Services are governed by these terms and conditions. Any and all terms and conditions (including any which may be delivered by customer with any purchase order or other commercial document) which are different than, or inconsistent with, or supplement these terms and conditions are rejected unless otherwise expressly agreed to by Envigo in writing. Instructions in a purchase order relating to the date and method of delivery for Products or Services shall be controlling only if accepted by Envigo in writing. No modification of these terms and conditions shall be binding or enforceable unless expressly agreed to by Envigo in writing.

II. PROVISION OF PRODUCTS AND SERVICES

Envigo will provide the Products and perform the Services in accordance with the Envigo Document, which may be amended from time to time upon the mutual agreement of Envigo and the customer. Envigo will adhere to all applicable government regulatory laws, rules and regulations in the jurisdiction from which the Products or Services are supplied (collectively referred to herein as "Laws"). If an amendment requires additional or different services on the part of Envigo, Envigo may agree to perform such services and will be paid an amount mutually agreed to by the parties. Deviations from the Envigo Document may be made in an emergency without the customer's approval, provided that Envigo shall use commercially reasonable efforts to obtain the customer's verbal approval, which shall be subsequently confirmed by the customer in writing. The parties acknowledge that during the course of performing the Services in accordance with the Envigo Document, additional costs may be incurred by Envigo as a result of procedural changes which do not amount to or require a change in the Envigo Document, but which are deemed necessary by Envigo to successfully perform the Services, and which could not be foreseen at the date of the Envigo Document. If such procedural changes occur, Envigo shall advise the customer prior to their implementation and solicit the customer's agreement as to the necessity and additional cost thereof. Should Envigo be unable to contact the customer in advance, the customer agrees that, in order to maintain the integrity of the Services, Envigo may proceed accordingly and Envigo shall be entitled to recover such additional costs from the customer upon presentation of an explanation of such procedural changes and the necessity thereof.

III. RESTRICTIONS ON USE AND BREEDING

i. Any Products purchased from Envigo shall be used by customer in a safe manner, and in accordance with all applicable Laws. In consideration of Envigo's valuable proprietary rights in the genetic composition responsible for the unique genetic characteristics of all animals purchased from Envigo and descendants of those animals derived by inbreeding or crossbreeding, including unmodified derivatives of those animals or their descendants ("Animals"), the customer, including its employees, agrees that no Animals or other Products may be directly or indirectly: (a) used for any purpose other than the internal research of the customer whether or not for cash or other consideration including, without limitation using any of the Products or any components thereof in manufacturing or to provide a product or a service for clinical, therapeutic, diagnostic or prophylactic purposes or for any other commercial purposes, (b) bred, generated, cross bred, reproduced, licensed or provided (for sale or otherwise) to any third party for any use, or (c) provided to any agent or other third party to provide breeding or other services with respect to such Animals, unless Envigo provides the customer with prior written authorization for deviations from these terms and conditions or an appropriate license.

ii. The purchase of any Products conveys to the customer the non-transferable right to use the Product and the components of the Products only in research conducted by the customer and specifically in accordance with the Envigo Document provided with the Products. If customer fails to comply with the foregoing limitations, in addition to any other remedies available to Envigo, the warranty provided for Products will be automatically voided.

IV. PAYMENT TERMS

i. Unless otherwise set forth in a Envigo Document, prices will be as per Envigo's published price lists on the day of delivery. If the customer is tax exempt, then it will be the customer's responsibility to provide Envigo with written proof of the customer's tax exempt status. The price list may be adjusted by Envigo without notice. Unless otherwise stated in the price list, the prices do not include, and the customer agrees to

pay, all applicable, taxes, duties, excise charges and packaging and shipping charges.

ii. The customer will pay Envigo as set forth in the Envigo Document. All invoices are due and payable within thirty (30) days from the date of the invoice, and the customer agrees to pay all invoices submitted. All amounts not paid by the customer when due may, at the option of Envigo, accrue interest from the applicable due date until paid, at a rate that is the lower of (a) the highest rate permitted under applicable Laws and (b) 1.5% per month. In addition, Envigo may elect to cease or suspend the Services or withhold required reports or other deliverables in the event that the customer does not make payments when due and payable. Termination, delay or cancellation fees will be set forth in the Envigo Document and shall be payable, as applicable, in accordance with the terms hereof.

iii. All payments to be made under this Agreement shall be made in cleared funds, without any deduction or set-off and free and clear of, and without deduction of any taxes, levies, imports, duties, charges, fees and withholdings of any nature now or hereafter imposed by any governmental, fiscal or other authority save as required by law. If a Party to this Agreement is compelled to make any such deduction, it will pay to the receiving Party such additional amounts as are necessary to ensure receipt by the receiving Party of the full amount which that party would have received but for the deduction.

iv. If, in the reasonable opinion of Envigo, customer's financial condition is precarious or there has been a materially adverse change in customer's financial condition, Envigo shall have the right to demand accelerated payment or other assurances that it deems adequate before providing any additional Products or Services.

V. CONFIDENTIALITY

In the course of providing the Products or performing the Services, Envigo and the customer may exchange proprietary or 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 shall (a) alert the other party of the confidential nature of the disclosure prior to the disclosure and (b) provide written notice to the other party of the confidential nature and contents of such disclosure within ten (10) days after making 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 to disclose such information by applicable Laws. Neither party shall use the other party's proprietary and/or confidential information for any purpose other than in performance of this Agreement. The confidentiality provisions of this Section shall not apply to any part of such information, which (a) is known to the receiving party at the time it was obtained from the disclosing party; (b) is acquired by the receiving party from a third party, and such third party is not known to the receiving party to be bound by an obligation of confidentiality to the disclosing party or otherwise prohibited from transmitting such information to the receiving party; (c) is or becomes published or otherwise in the public domain other than by violation of this Agreement by the receiving party; (d) is independently developed by the receiving party without reference to or reliance upon the information provided by the disclosing party; or (e) is required to be disclosed by the receiving party to comply with applicable Laws; 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.

VI. LIMITED WARRANTY

i. Although Envigo maintains strict control over its environment, breeding and maintenance operations and engages in a comprehensive Health and Genetic Monitoring Quality Control Program, changes in health and genetic status can occur. Genetic and environmental pressures can affect the general health of animals. For this reason, Envigo recommends that its Animals be monitored and tested after delivery. If customer is unable to perform such monitoring and testing, Envigo will provide assistance to customer upon request. Any testing of the type discussed in this Section must commence no later than seven (7) calendar days after customer's initial receipt of the Animals and be completed no later than twenty-one (21) calendar days after customer's receipt of the Animals. Should customer accept delivery of Products, customer will not be entitled to return the Products to Envigo for any reason.

ii. Envigo warrants that the Products and Services shall conform in all material respects to the specifications contained in the Envigo Document and applicable Laws at the time of delivery or completion. Envigo 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 or that the results of the Services will enable the customer to further develop, market or otherwise exploit any product or service.

ENVIGO TERMS AND CONDITIONS

iii. Other than described herein, **ENVIGO MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF ANY PATENT, TRADEMARK OR OTHER INTELLECTUAL PROPERTY RIGHTS OR OTHERWISE. CUSTOMER ASSUMES ALL RISK AND LIABILITY RESULTING FROM THE USE OF THE PRODUCTS AND SERVICES. ALL OBLIGATIONS OR LIABILITIES OF ENVIGO FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE PRODUCTION, USE, OR PERFORMANCE OF ITS SERVICES OR PRODUCTS, EXCEPT AS PROVIDED HEREIN, ARE FULLY DISCLAIMED AND EXCLUDED.**

iv. Any claim for breach of this limited warranty must be made in writing to Envigo upon discovery of such loss or damage and no later than: (a) in the case of Products, seven (7) calendar days after the date the Products are delivered, or (b) in the case of Services, the date that the Services are completed, after which time the Products or Services shall be deemed finally accepted. The customer must retain for Envigo's inspection all Products alleged to be defective.

v. Risk of loss and title to the Products shall pass to customer once the Products leave Envigo's facility or are delivered to a common carrier, as applicable.

VII. LIMITATION OF LIABILITY

i. Envigo will not be liable for penalties or liquidated damages or for special, indirect, consequential, punitive, exemplary or incidental damages or loss of profits, revenue or amounts expended in using, storing, or maintaining any such Products regardless of whether any such losses or damages are characterized as arising from breach of contract, breach of warranty, tort, strict liability or otherwise, even if Envigo is advised of the possibility of such losses or damages, or if such losses or damages are foreseeable.

ii. Envigo's liability, regardless of the form of action, shall be limited to actual damages and shall not exceed the total price paid for the Products or Services with respect to which such liability arises. In no event shall Envigo be liable for any damages arising from or in connection with any decision by the customer or any third party to use, further research, develop or market any test articles or any derivative, product or service related thereto (or to the Products or Services).

iii. Subject to the limitations set forth in this Section VII, in the event that Envigo commits a breach of the limited warranty set forth in the Limited Warranty Section above, Envigo's sole liability, and the customer's sole remedy, shall be for Envigo to (a) replace the Products or issue a credit therefore or (b) conform the portion of the Services giving rise to the breach to the relevant specifications.

iv. If any provision or part provision of this Section VII is invalid, illegal or unenforceable, Envigo and the customer shall negotiate in good faith to amend such provision or part provision so that, as amended, it achieves to the greatest extent possible, the intended commercial result of the original provision.

v. Nothing contained herein shall exclude or restrict a Party hereunder for death or personal injury caused by that Party's negligence or for fraud or fraudulent misrepresentation.

VIII. INDEMNIFICATION

The customer agrees to defend, indemnify, save and hold harmless Envigo and its parent, subsidiaries and affiliates and their respective directors, managers, members, shareholders, officers, employees and agents ("Indemnified Parties") from and against any claims, demands, suits, actions, causes of action, losses, costs, damages, fines and liabilities, including reasonable attorney, expert and other professional fees ("Claims") arising out of or in connection with or attributable to (a) the research, development, manufacture, distribution, use, sales or other disposition by the customer, or any distributor, collaborator, customer, sublicensee, representative or agent of the customer, of any test articles and/or any other substances upon which the Services were performed or for which the Products were used, (b) any infringement of any third party's patent rights or unauthorized use or misappropriation of its know-how, (c) the customer's negligence or willful misconduct, (d) personal injury related to contact with the Products during visits to Envigo's facilities or after delivery of the Products to the customer, or (e) the harmful or otherwise unsafe effect of any product resulting from research involving the Products and Services, and will pay any costs and damages which may be assessed against the Indemnified Parties.

IX. FORCE MAJEURE

Envigo shall not be responsible for any delays arising, directly or indirectly, from fires, floods, earthquakes, explosions, strikes, labor difficulties, acts of terrorism, riots, war, insurrection, embargo, government decrees or orders, civil or military authority, acts of animal activism, failure or curtailment of Envigo's usual sources of supply, disease, acts of God, or any other event, occurrence or condition which is beyond Envigo's reasonable control.

X. APPLICABLE LAW

These terms and conditions will in all events and for all purposes be governed by, and construed in accordance with, the laws of the State of Indiana in the United States of America ("US") in circumstances where the Envigo Document is generated by an Envigo legal entity in the US, and the laws of England and Wales where the Envigo Document is generated by an Envigo legal entity outside the US. Any choice of law principle or international treaty that would dictate the application of the law of another jurisdiction is specifically excluded to the fullest extent possible.

XI. SEVERABILITY

Each provision of these terms and conditions is severable, and subject to Section VII iv, if any provision shall at any time be held to be contrary to law or invalid or unenforceable, the remaining terms, conditions and provisions shall not be affected thereby but shall remain in full force and effect. As used in this Section "provision" shall mean and include any word, clause, sentence, sub-paragraph, paragraph, section or portion of these terms and conditions.

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Envigo

8520 Allison Pointe Blvd., Suite 400
Indianapolis, IN 46250
Attn: Customer Service Department

T 800.793.7287
F 317.806.6090
E csdorders@envigo.com