

RapidCHECK™

Taconic Biosciences' health confirmation service for model design projects generated at Cyagen Biosciences, Taconic's partner in custom model generation services

HOW DOES RapidCHECK™ MAKE IT EASIER TO IMPORT YOUR CYAGEN PROJECT?

- ▶ The RapidCHECK™ health confirmation service provides you with a comprehensive report on the microbial health of the animals in your Cyagen project after they have arrived at a Taconic facility in the United States. These data may allow you to directly receive project animals into your facility and bypass a lengthy quarantine period.



Please provide this flyer to your Vivarium Manager or Facility Veterinarian to ensure that project animals will be of the appropriate age and health standard to be accepted into your facility after completion of the RapidCHECK™ health confirmation service.

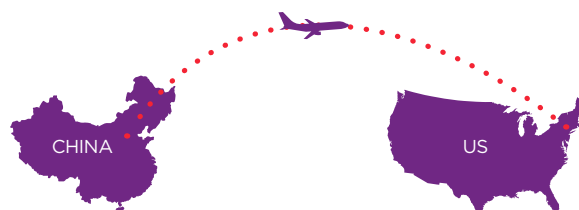
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THE TACONIC-CYAGEN ALLIANCE ALLOWS FOR EFFICIENT DELIVERY OF RAPIDCHECK PROJECTS

- ▶ Taconic has completed an extensive audit of Cyagen's facilities and processes in China.
- ▶ Project animals are shipped from Cyagen to Taconic by air.



WHAT IS RapidCHECK™?

- ▶ RapidCHECK™ is built upon Taconic's foundation of providing the highest quality laboratory animals for over six decades.
- ▶ RapidCHECK™ is a health confirmation service that provides comprehensive health monitoring reports for animals originating from the Cyagen Transgenic Animal Center (CTAC) in China.
- ▶ RapidCHECK™ health monitoring utilizes animal samples collected after importation and housing in Taconic's Isolator Breeding Solutions (IBS), an AAALAC-accredited facility in Rensselaer, New York (US).
- ▶ RapidCHECK™ health monitoring reports are generated using a combination of serology and polymerase chain reaction (PCR) testing to screen samples for pathogens consistent with Taconic's International Health Monitoring System Annual Mouse/Rat panels.
- ▶ Each RapidCHECK™ health monitoring report is reviewed and approved by a Taconic veterinarian and made available to you before your animals are shipped to your facility.

Your project deliverable has been met!


Cyagen
Project Manager



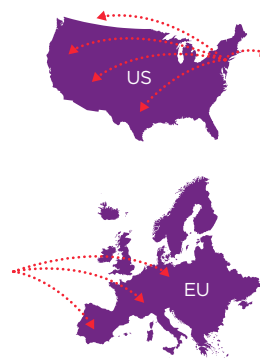
Your animals have arrived!


Taconic
Project Manager



RapidCHECK™ health monitoring is complete. Your animals are ready to ship!


Taconic
Logistics



**Note that RapidCHECK™ is offered as part of the Taconic-Cyagen model generation alliance projects and is not available as a stand-alone service.*

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RapidCHECK™ HEALTH CONFIRMATION SERVICE

The RapidCHECK™ health monitoring reports reflect the results of animal samples that have been screened for the following agents:



RapidCHECK™ animals arrive at Taconic's IBS facility and are sequestered to a dedicated environment. Once unpacked, animals are housed in an Individually Ventilated Cage (IVC) system.



PCR and serology samples collected and sent for testing.

- ▶ Serology: blood samples from contact sentinel
- ▶ PCR: fur swab, fur pluck, and fecal pellet samples from contact sentinel



Health monitoring reports are reviewed and approved by a Taconic veterinarian



Health monitoring reports are provided to customer prior to shipment



Animals shipped to customer in a Taconic Transit Cage™ (TTC™)

TOTAL
TIME:
5
WEEKS

Agent		Cyagen	Taconic	
Method of Testing		PCR	Serology	PCR
Viruses	MHV	YES	YES	
	MVM	YES	YES	
	MKPV*			YES
	MPV (MPV1-5)	YES	YES	YES
	MNV	YES	YES	
	TMEV	YES	YES	
	EDIM	YES	YES	
	Sendai virus	YES	YES	
	PVM	YES	YES	
	REO3	YES	YES	
	LCMV	YES	YES	
	Ectromelia virus	YES	YES	
	MAV1	YES	YES	
	MAV2	YES	YES	
	Polyomavirus	YES	YES	
	MCMV	YES	YES	
	K virus	YES	YES	
	Hantaan virus	YES	YES	
	LDV		YES	
	MTV	YES	YES	
Bacteria	<i>Corynebacterium kutscheri</i>	YES		YES
	<i>Corynebacterium bovis</i>	YES		YES
	<i>Clostridium piliforme</i>	YES	YES	
	CAR bacillus	YES	YES	
	<i>Citrobacter rodentium</i>	YES		YES
	<i>Klebsiella oxytoca</i>	YES		YES
	<i>Klebsiella pneumoniae</i>	YES		YES
	<i>Mycoplasma pulmonis</i>	YES	YES	
	<i>Pasteurella pneumotropica</i> -Heyl	YES		YES
	<i>Pasteurella pneumotropica</i> -Jawetz	YES		YES
	<i>Salmonella</i> spp.	YES		YES
	<i>Staphylococcus aureus</i>	YES		YES
	<i>Streptococcus pneumoniae</i>	YES		YES
	<i>Streptobacillus moniliformis</i>	YES		YES
	Beta hemolytic Strep (non-Group D)	YES		YES
	<i>Bordetella bronchiseptica</i>	YES		YES
	<i>Helicobacter</i> spp.	YES		YES
	<i>Pasteurella multocida</i>	YES		YES
	<i>Proteus mirabilis</i> *			YES
	<i>Pseudomonas aeruginosa</i>			YES
	SFB*			YES
Parasites/Fungi	Cryptosporidium	YES		
	Pinworms	YES		YES
	Furmites	YES		YES
	Giardia	YES		YES
	<i>Spiroplasma</i> muris	YES		YES
	<i>Pneumocystis murina</i>	YES	YES	
	<i>Tritrichomonas muris</i>	YES		YES
	Entamoeba	YES		YES
	Encephalitozoon cuniculi (ECUN)	YES	YES	
	Eimeria spp.			YES
	Tapeworms			YES

*These agents are allowed at the specific pathogen free (SPF) health designation (nonstandard health status)

THE COMPLETE SOLUTION

MODELS TO DRIVE DRUG DISCOVERY

Taconic Biosciences is uniquely positioned to enable drug discovery through animal models by being the only company that partners with customers to provide expertise, quality, and availability, along with downstream services:

- ▶ Expertise at every step
- ▶ Highest quality standards in the industry
- ▶ Availability and access to drive global research

MODEL GENERATION SOLUTIONS

Taconic's Model Generation Solutions empower our customers with a unique combination of capabilities, specifically tailored to each individual discovery program:

- ▶ Most experienced model generation and breeding company
- ▶ Most comprehensive toolkit
- ▶ Exclusive programs
- ▶ Concierge approach to partnering with customers

COLONY MANAGEMENT SOLUTIONS

Taconic's fully-integrated colony management solutions bring innovative models from design to study-ready cohorts with unprecedented speed and transparency:

- ▶ Most experienced model generation and colony management company
- ▶ The complete toolkit
- ▶ Colony management solution process
- ▶ Partnering with our customers
- ▶ Expanded applications and opportunities

YOUR PARTNER

WHAT WE DO

Taconic Biosciences is a fully-licensed, global leader in genetically engineered rodent models and services. Founded in 1952, Taconic provides the best animal solutions so that customers can acquire, custom-generate, breed, precondition, test, and distribute valuable research models worldwide.

WHO WE ARE

Taconic has created a unique ecosystem of experts to provide our customers with the best animal model solutions. Whether it is choosing the right model for your study, designing a custom model, creating an efficient breeding plan, or providing expertise in critical support functions like veterinary science, genetics, and embryology, Taconic is ready to help you drive your research from idea to cure.

CONTACT US

To get started, contact one of our customer service team members. Contact us at info@taconic.com.

VISIT TACONIC.COM

There is so much more to learn. Visit taconic.com to see our full breadth of animal model solutions and valuable resources.

THE TACONIC-CYAGEN MODEL GENERATION ALLIANCE

World-renowned for its consultative approach to complex animal model creation, Taconic Biosciences partners with researchers to provide the best solutions for the creation and supply of novel genetically engineered models by leveraging the most comprehensive, fully licensed gene modification toolkit in the industry. Cyagen Biosciences utilizes a highly efficient process, including its proprietary AI technology, to design and deliver novel genetically engineered models with precision and competitive pricing. As partners, Taconic and Cyagen leverage the power of our complementary approaches to redefine the model generation customer experience by bringing the best and most competitive solutions to the market.

There are no limits to your imagination and success – time, funding, or risk. With access to Taconic's expertise, quality, and flexibility, combined with Cyagen's speed, efficiency, and economical business model, our team will guide you through the process to the best technical solution, service level, and deliverable for your project.

TACONIC

EXPERTISE

- ▶ World-class gene modification experts provide critical consultation throughout the process
- ▶ Additional consultation in genetics, veterinary sciences, breeding, therapeutic areas and applications
- ▶ Accessible and hands-on complete project management

QUALITY

- ▶ Complete risk assessment
- ▶ Robust freedom to operate
- ▶ Comprehensive quality checks throughout model generation process

FLEXIBILITY

- ▶ Comprehensive tool kit includes homologous recombination, transgenesis, CRISPR/Cas9 and more to provide the best solution for all genetic modifications, from the simple to the complex
- ▶ Able to generate GEMs on multiple background strains
- ▶ Agility in project progression allows the right decision to be made at every stage
- ▶ Project deliverables ranging from several mice to research-sized cohorts to ongoing colony management

CYAGEN

PROCESS EASE

- ▶ Streamlined process provides customers with 1-2 day project plan turnaround time
- ▶ Reduced project timeline compared with most university core facilities
- ▶ Transparency via robust reporting enables customers to drive strategy

EFFICIENCY

- ▶ Efficient animal delivery via RapidCHECK health confirmation service
- ▶ Leverage proprietary AI technology to design gene modification

ECONOMICAL BUSINESS MODEL

- ▶ Highly competitive pricing
- ▶ Standard quality checks
- ▶ Deliverable with guaranteed genotype



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