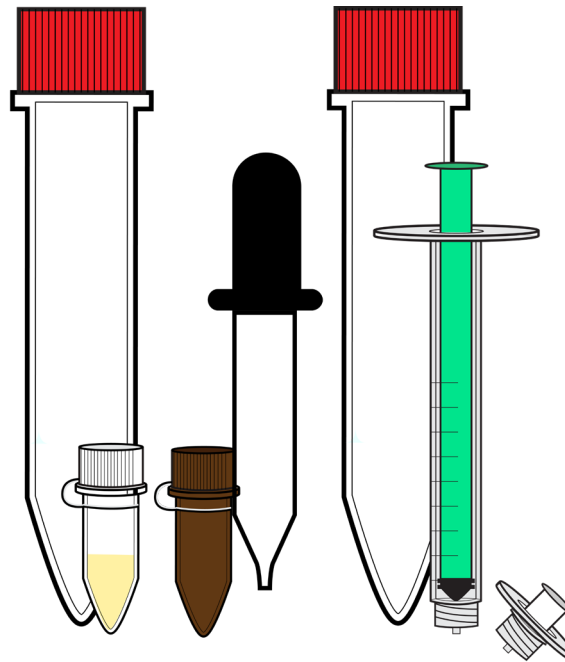


GENETIC ENGINEERING WITH THE

# Extract-it Kit - Liquid Culture™

————— User Manual —————



# Table of Content

Welcome! Let's get started	03
Important Safety Tips	04
Equipment Needed & Setting up your space	05
Discover your Extract-it Kit	
What does your kit allow you to do?	07
What's in the kit ?	08
Storing your kit	09
Technical specifications	09
Implementation timeline	10
Your experiment ( <i>Experiment protocol</i> )	
1. Collect and Pellet the Bacteria	11
2. Lyse the Bacteria	12
3. Collect & Filter the Product	12
After your experiment	
Storage, disposal and clean up	13
Terms of service	15

# Welcome! Let's get started

This User Guide was created to help you get the most out of your Amino Labs Experience.

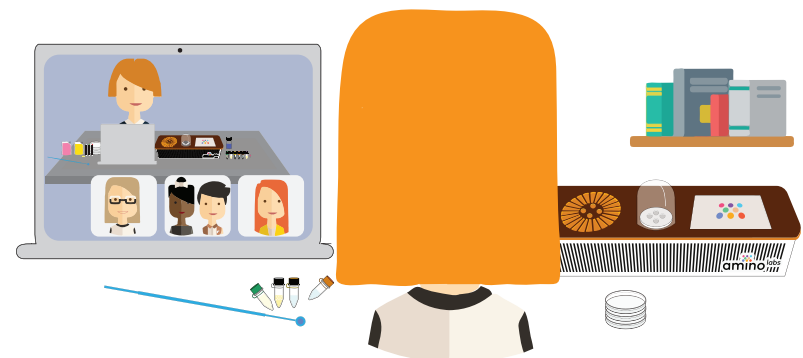
Even if you are familiar with bioengineering, science or other Amino Labs™ product, please take the necessary time to read through this guide. This will ensure you practice safe science, get the most out of your Extract-it Kit™ and finally, know what to do in case of a spill or accident!

This is a supplementary manual for the Extract-it kit™ alone, that supposes you have used and follow our DNA Playground with Engineer-it Kit™ manual, the Standalone Engineer-it Kit™ manual or the Amino One Bioproduction Lab™ manual.

This manual is procedural – these are the step by step instructions on how to run your experiment. Make sure to follow our tips! We will also cover "what's next", how to keep your creations, left over ingredients and clean up.

Amino Labs is very excited to welcome you to the world of the Biological Engineering Extraction with our ecosystem of easy-to-use, easy-to-succeed at products!

Following this guide will help ensure that you are getting the most out of your current and future experiences to keep on making new creations with DNA. Have fun!



# Practice Safe Science

Bioengineering and life sciences are safe activities when you follow simple guidelines. Read on to ensure you adopt safe practices.

Firstly, the kit in your hands contains only non-pathogenic ingredients. These are rated Risk Group 1 (RG1) (Biosafety Level 1), the most benign level (and therefore the safest). With these ingredients, no special containment or training is required in North America\*, but you must follow the following rules for your safety and the safety and success of your experiment(s)!

We recommend the system for ages 8+, under adult supervision, and 16+ unsupervised.

We recommend that the discard container be emptied by an adult and that the cleaning instructions be strictly followed for safety and experiment success. Make sure to store the ingredients in accordance with the instructions found in this booklet (refrigerated, in the freezer, or room temperature). Eyewear is not provided but should be worn.

- **Do not eat or drink near your experiments.** Keep your experiment at least 10 feet from food, drinks, etc. Under no circumstances should you consume any of the ingredients.

- **Immunocompromised persons:** While the ingredients in these kits are considered non-pathogenic, some persons, such as immunocompromised persons, can be affected by large numbers of bacteria and should wear extra protection to ensure no contact with the ingredients.
- **Wash your hands before and after** manipulating your experiment, the ingredients, or the hardware.
- **Wear gloves**, even when cleaning your station or handling the consumables (petri plates, loops, etc). This will protect you from your experiment, and your experiment from you. Any latex, nitrile, or general purpose gloves you can find at the pharmacy will do. Also, after you put your gloves on, be aware of what you touch. Try not to touch your face, scratch itches with your gloved fingers!
- **Clean up your station, spills and work surface before and after use.** Use a 10% solution of chlorinated bleach generously sprayed onto a paper towel and rub onto any contaminated surfaces. (Careful! This can discolor your clothes). A chlorinated spay cleaner will also work.
- **Find a container to discard used consumables** such as the blue and yellow loops, and tubes. An old large yogurt container, large plastic cup or the like will do. You will then fill this with bleach once your experiment is over, as described in the "After your experiment" section.

# Equipment Needed

To use the Extract-it Kit you will need the following:

- **Microcentrifuge**  
Spins at 13,000 RPM or greater
- **Large 15mL tube Centrifuge (Optional)**  
Spins up to 4,000 RPM

# Cleaning and safety supplies needed

- **Disposable container 500ml-1L** for waste (e.g. yogurt container)
- nitrile, (or similar) **gloves** like the ones found at a pharmacy.
- **Chlorinated bleach** (*mix a 10% solution: 1 part bleach to 10 parts water*) and a plastic bag to clean up.

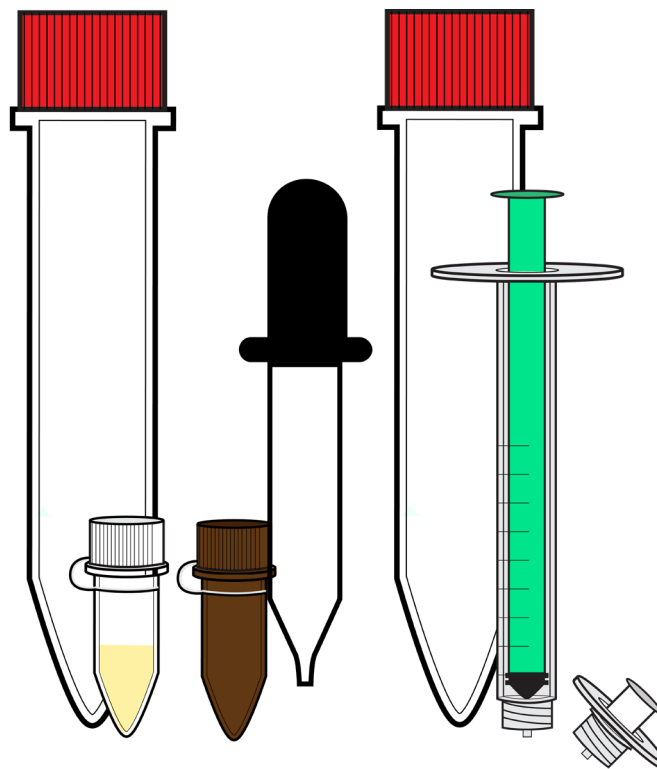


# Setting up your space

Setting up your space is easy. Find a level, non-porous surface. Make sure the surface is bleach safe, and wipe it down with a solution of 10% chlorinated bleach or a chlorinated cleaner. Find and place a container of about 500ml-1L to collect your experiment waste : liquids, ingredient tubes, wipes. We suggest an old yogurt container or similar that you can fill with bleach to inactivate and then throw out at the end.

Make sure your centrifuge(s) is on a solid, level surface. Refer to the manufacturer's instructions for set up.

# Discover your Extract-it Kit™



# What does your kit allow you to do?

For an end-to-end bioengineering experience, Amino Labs provides you with the means to extract and purify what your bacteria produced so you can use it outside of the system. In other words, The Extract-it kit allows you to take the product created by your DNA program plasmid (for example, a coloured protein) from within the bacteria so that you can use it.

First, the bacteria's cell wall will be broken open, and then filtered out so that you can obtain a solution of proteins. You will then filter this liquid for sterilisation. What's cool about this is that the DNA program is still present within the product, so that if someone ever wanted to, they could copy it from there, and grow it once more in bacteria!

Specifically, your kit will allow you to complete the following hands-on exercises to successfully achieve a protein extraction

1. Collect bacteria and centrifuge it down into a "pellet".
2. Lyse (break open) the bacteria using surfactant and enzymes.
3. Collect and filter the pigments.

# What's in your kit?

Inside the Extract-it Kit™, you will find these components:



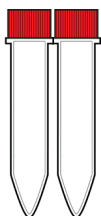
**Lysis buffer:** : softly breaks open (lyses) the cells to release the cell contents. This buffer should be used in concert with Lysis Accelerator.



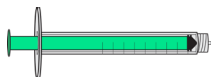
**Lysis Accelerator:** includes enzymes that break down the cell wall of bacteria and works with Lysis Buffer to release the contents of cells into their environment.



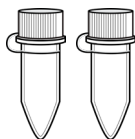
**0.22 um filter** : This filter has pore sizes that are 0.22 um which are smaller than bacteria. This means bacteria cannot pass through, but your pigment (smaller than 0.22 um) can.



**Collection Tube** : These 15 mL tube are used to collect and pellet cells from the Bioproduction Lab using a centrifuge. If you don't have a 15 mL tube centrifuge, you can also add cells to the tube and let them sit in the fridge for 24-48 hours and the bacteria will settle at the bottom



**Syringe:** Used to push unfiltered extract through a filter. Caution! Do not press too hard to avoid liquid mishaps. Goggles recommended when using the syringe.



**(2)1.5 mL Screw Cap Tube** : Use one to store your final, extracted and filtered product, and one to use as a cell debris spin tube.



**Pigment Enhancer Tube** : Mix these nanoparticles with your filtered and extracted pigments to enhance their fluorescent properties, if applicable.

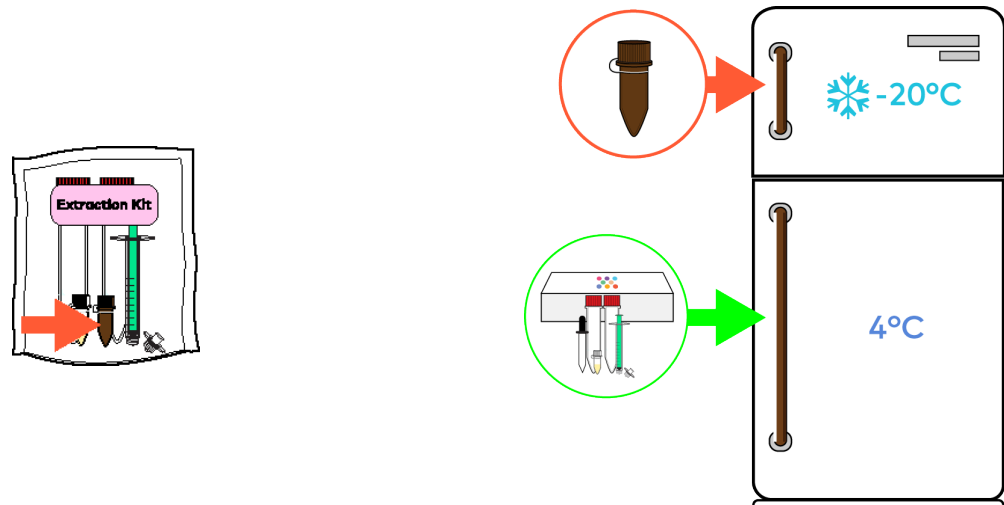


**Pipet** : Pipets are used to resuspend the cells in Lysis Buffer



# Unpacking and Storing your kit

For a better shelf life and successful experiments, take the brown tube (Lysis Accelerator) out of your Extract-it Kit™, place it in the freezer and place the rest of the kit components in a standard refrigerator at around 4°C.



## Technical Specifications

Lysis buffer: 1 mL

Lysis Accelerator: 5 mg

Filtration: (1) 0.22 um filter

Syringe: (1) 3 mL

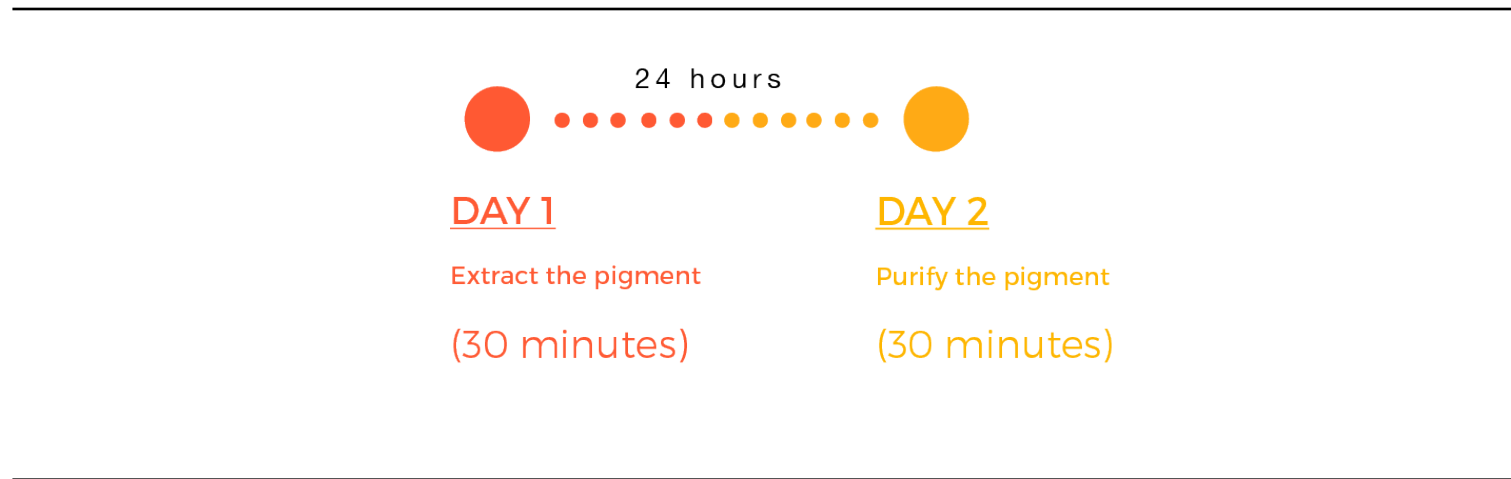
Tubes:

(2) 15 mL

(1) 1.5 mL Screw Cap

# Implementation Timeline

The Engineer-it Kit™ takes 2 days of hands-on activity to complete, and 24 to 72 hours to see results.



3 "activities" or steps make up the Extract-it experiment:

1. Collect bacteria and centrifuge it down into a "pellet".  
Day 1, 25-35 minutes
2. Lyse (break open) the bacteria using surfactant and enzymes  
Day 1, 5 minutes with a 1-24 hour resting period
3. Collect and filter the pigment  
Day 2, 10-25 minutes

# Start your Experiment : *Experiment protocol*

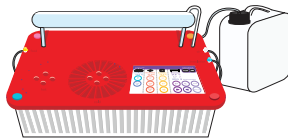
## 1.

### Collect & Pellet the Bacteria

25-35 minutes

#### Goal

Collect bacteria in the collection tube and pellet them in the bottom



#### Materials from your kit

(1) Amino One culture  
(1) Collection Tubes

(1) Centrifuge for 15 mL tubes  
(4000 RPM)

#### Note

*If you do not have a Bioproduction Lab, you can grow your engineered cells from the Engineer-it Kit in a shaker incubator using LB media and the correct antibiotics in flasks. After growing in the shaker incubator for 24-48 hours, move to step 1.1.*

**1.1** Instead of disposing of your culture in the waste container, open a 15 mL collection tube and fill it to between 10-14 mL full. Be careful not to spill on the counter! Use remaining Solution A to wipe any spills / contamination.

**1.2** If there is an even number of groups doing this exercise, match up the amount of bacterial culture in the tubes (both should have the same amount).

*\* It is extremely important to make sure the tubes have the same amount of liquid or the centrifuge will not be balanced and can break.\**

**1.3** Turn on the centrifuge to 4000 RPM for 10 minutes. If you don't have a 15 mL tube centrifuge, you can try filling your tube with bacterial culture and then let it sit on a counter or fridge. The bacteria may settle as a pellet in 24-48 hours

**1.4** Pour off the supernatant (liquid on the top) into a waste container.

**1.5** Add another 10-14 mL of culture to the tube.

**1.6** Centrifuge for another 10 minutes.

**1.7** Pour off the supernatant (liquid "floating" on the top) into a waste container.

**1.8** You can repeat this 2-5 more times if you want to, but doing 2 cycles will be enough! If you have a 50 mL tube centrifuge, you can also use it to collect more cells faster.

*\*If you have more than 50mL of culture, your cells may not extract efficiently.\**

Once your cells are collected for extraction from your Amino One Bioproduction Lab you can either :

**A)** Add more Food (LB) to grow a fresh culture from the remaining cells in the Bioproduction Lab

**B)** Fully empty and clean the Bioproduction Lab system for storage or to grow something new.

# Experiment protocol cont.

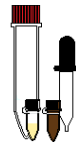
## 2.

### Lyse the Bacteria

15 minutes with 12-24 hour wait

#### Goal

Re-suspend the cells in lysis buffer and enzyme in order to break down the cell wall and release the product



#### Materials from your kit

- |  |  |
|--|--|
| (1) Tube with bacterial pellet<br>(collection tube from previous step) | (1) Lysis Accelerator                  |
| (1) Lysis Buffer tube  | (1) 1 mL Pipet                         |
|  | (1) 1.5 mL clear cell debris spin tube |

**2.1** Once you have a bacterial pellet and all of the liquid is poured off into a waste container, pour the 1 mL tube of Lysis Buffer to the collection tube with pelleted cells. With the pipet, pipet up and down until the bacteria are fully suspended in the lysis buffer. \* Try not to create too many bubbles! \*

**2.2** Pipet or pour the suspended bacteria into the brown tube with Lysis Accelerator, put on the lid, and then invert 10 times.

**2.3** Leave this tube to incubate at room temperature for 12- 24 hours. During this period, the bacteria will be broken open and the pigments will be released into the solution. The longer the incubation time, the more product you will extract. If you have the opportunity , invert / mix the tube during the incubation period. This will improve the lysis reaction.

**2.4** After incubation and before centrifuging, pour your lysed solution into the clear spin tube. This will allow you to keep an eye on your solution as the cell debris pellets out of your pigment. Using your microcentrifuge, put the tubes into the centrifuge and spin at 13,000 RPM for 15 minutes.

**\* Immediately move to the step 3 \***

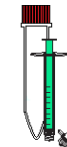
## 3.

### Collect & Filter the Product

10-15 minutes

#### Goal

Passing the extracted pigment through a 0.22 um filter to get rid of cells and other debris (sterilize the products)



#### Materials from your kit

- |                    |                                   |
|--------------------|-----------------------------------|
| (1) Syringe        | (1) 1.5 mL tube for final pigment |
| (1) Syringe Filter |                                   |

**3.1** Attach the syringe filter to the syringe.

**3.2** Pull out the syringe plunger from the cartridge.

**3.3** Set the syringe and filter over the final pigment 1.5 mL tube.

**3.4** Gently pour the supernatant (extracted products) into the syringe. This should be transparent solution, not cloudy. If cloudy, transfer it back to the tube and centrifuge for another 15 min. The cloudiness is cell debris and will clog the filter irreversibly.

**3.5** Put the syringe plunger back into the syringe cartridge and slowly press down. The products will pass through the filter. Be careful not too press to hard, because the filter could explode. If you did not effectively centrifuge the cell debris, the filter could get clogged.

You can now use your products!

Share your creations with us !  @aminobiolab

## After your Experiment



Using the Extract-it Kit™, you extracted and filter-purified a protein create by a DNA Program inside single-celled organisms, just like scientist and industries do every day inside their large laboratories. Great! We hope you enjoyed the experience, and will continue to experiment in the field of biological engineering.

For now, lets make sure you dispose of and store your remaining material correctly.

## Storage, disposal and Clean up

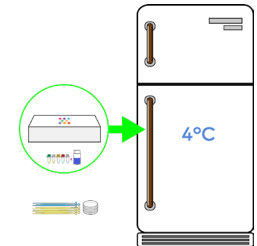
After your experiment, you will have cells, discard liquids and possibly unused ingredients.

1. Place the unused Ingredients in a sealed bag or box and place them in a refrigerator. Keep them for 1 month once opened. If unopened, the shelf life is 6 months

2. Dispose of your cells by placing them in a ziplock bag and half-fill it with concentrated bleach. Zip closed for 24 hours. Pour the liquid in the toilet and throw away the rest. You can also place them in your waste container if space is available. Use more bleach to wipe down your work area and equipment.

3. To dispose of the consumables used (loops, used tubes), fill your waste container 1/3 with bleach. Make sure the tubes are open. Immerse for 24 hours, and then drain the liquid in the toilet and throw away the rest.

4. Your extracted products are stable at room temperature. Keep them out of sunlight, like any other pigments.



# Terms of Service

This website is operated by Amino Labs Inc "Amino Labs". Throughout the site, the terms "we", "us" and "our" refer to Amino Labs. Amino Labs offers this website, including all information, tools and services available from this site to you, the user, conditioned upon your acceptance of all terms, conditions, policies and notices stated here.

By visiting our site and/ or purchasing something from us, you engage in our "Service" and agree to be bound by the following terms and conditions ("Terms of Service", "Terms"), including those additional terms and conditions and policies referenced herein and/or available by hyperlink. These Terms of Service apply to all users of the site, including without limitation users who are browsers, vendors, customers, merchants, and/ or contributors of content.

Please read these Terms of Service carefully before accessing or using our website. By accessing or using any part of the site, you agree to be bound by these Terms of Service. If you do not agree to all the terms and conditions of this agreement, then you may not access the website or use any services. If these Terms of Service are considered an offer, acceptance is expressly limited to these Terms of Service.

Any new features or tools which are added to the current store shall also be subject to the Terms of Service. You can review the most current version of the Terms of Service at any time on this page. We reserve the right to update, change or replace any part of these Terms of Service by posting updates and/or changes to our website. It is your responsibility to check this page periodically for changes. Your continued use of or access to the website following the posting of any changes constitutes acceptance of those changes.

## SECTION 1 - ONLINE STORE TERMS

By agreeing to these Terms of Service, you represent that you are at least the age of majority in your state or province of residence, or that you are the age of majority in your state or province of residence and you have given us your consent to allow any of your minor dependents to use this site.

You may not use our products for any illegal or unauthorized purpose nor may you, in the use of the Service, violate any laws in your jurisdiction (including but not limited to copyright laws). You must not transmit any worms or viruses or any code of a destructive nature. A breach or violation of any of the Terms will result in an immediate termination of your Services.

## SECTION 2 - GENERAL CONDITIONS

We reserve the right to refuse service to anyone for any reason at any time. You understand that your content (not including credit card information), may be transferred unencrypted and involve (a) transmissions over various networks; and (b) changes to conform and adapt to technical requirements of connecting networks or devices. Credit card information is always encrypted during transfer over networks.

You agree not to reproduce, duplicate, copy, sell, resell or exploit any portion of the Service, use of the Service, or access to the Service or any contact on the website through which the service is provided, without express written permission by us.

The headings used in this agreement are included for convenience only and will not limit or otherwise affect these Terms.

## SECTION 3 - ACCURACY, COMPLETENESS AND TIMELINESS OF INFORMATION

We are not responsible if information made available on this site is not accurate, complete or current. The material on this site is provided for general information only and should not be relied upon or used as the sole basis for making decisions without consulting primary, more accurate, more complete or more timely sources of information. Any reliance on the material on this site is at your own risk.

This site may contain certain historical information. Historical information is not current and is provided for reference only. We reserve the right to modify the contents of this site at any time, but have no obligation to update any information. You agree that it is your responsibility to monitor changes to our site.

## SECTION 4 - MODIFICATIONS TO THE SERVICE AND PRICES

Prices for our products are subject to change without notice. We reserve the right at any time to modify or discontinue the Service (or any part or content thereof) without notice at any time. We shall not be liable to you or to any third-party for any modification, price change, suspension or discontinuance of the Service.

## SECTION 5 - PRODUCTS OR SERVICES

Certain products or services may be available exclusively online through the website. These products or services may have limited quantities and are subject to return or exchange only according to our Return Policy. We have made every effort to display as accurately as possible the colors and images of our products that appear at the store. We cannot guarantee that your computer monitor's display of any color will be accurate.

We reserve the right, but are not obligated, to limit the sales of our products or Services to any person, geographic region or jurisdiction. We may exercise this right on a case-by-case basis. We reserve the right to limit the quantities of any products or services that we offer. All descriptions of products or product pricing are subject to change at anytime without notice, at the sole discretion of us. We reserve the right to discontinue any product at any time. Any offer for any product or service made on this site is void where prohibited.

We do not warrant that the quality of any products, services, information, or other material purchased or obtained by you will meet your expectations, or that any errors in the Service will be corrected.

## SECTION 6 - SHIPPING AND DELIVERY

Orders will be shipped to an address designated by the purchaser as long as that shipping address is compliant with the shipping restrictions contained on this Website. All purchases from this Website are made pursuant to a shipment contract. As a result, risk of loss and title for items purchased from this Website pass to you upon delivery of the items to the carrier. You are responsible for contacting us to initiate any claim for damaged and/or lost shipments. You are responsible for paying any import duties and taxes on your order.

## SECTION 7 - RETURNS

Amino Labs accepts returns for any unaffected item within 14 calendar days from the date of receipt of merchandise (minus a 25% restocking fee). After such time, all sales are considered final. "Unaffected" means a device has never been powered up, used or otherwise changed.

# Terms of Service

returns on purchased items that have had electrical power applied to them, or been otherwise programmed, changed, or affected.

## **SECTION 8 - ACCURACY OF BILLING AND ACCOUNT INFORMATION**

We reserve the right to refuse any order you place with us. We may, in our sole discretion, limit or cancel quantities purchased per person, per household or per order. These restrictions may include orders placed by or under the same customer account, the same credit card, and/or orders that use the same billing and/or shipping address. In the event that we make a change to or cancel an order, we may attempt to notify you by contacting the e-mail and/or billing address/phone number provided at the time the order was made. We reserve the right to limit or prohibit orders that, in our sole judgment, appear to be placed by dealers, resellers or distributors.

You agree to provide current, complete and accurate purchase and account information for all purchases made at our store. You agree to promptly update your account and other information, including your email address and credit card numbers and expiration dates, so that we can complete your transactions and contact you as needed.

## **SECTION 9 - OPTIONAL TOOLS**

We may provide you with access to third-party tools over which we neither monitor nor have any control nor input. You acknowledge and agree that we provide access to such tools "as is" and "as available" without any warranties, representations or conditions of any kind and without any endorsement. We shall have no liability whatsoever arising from or relating to your use of optional third-party tools.

Any use by you of optional tools offered through the site is entirely at your own risk and discretion and you should ensure that you are familiar with and approve of the terms on which tools are provided by the relevant third-party provider(s).

We may also, in the future, offer new services and/or features through the website (including, the release of new tools and resources). Such new features and/or services shall also be subject to these Terms of Service.

## **SECTION 10 - THIRD-PARTY LINKS**

Certain content, products and services available via our Service may include materials from third-parties. Third-party links on this site may direct you to third-party websites that are not affiliated with us. We are not responsible for examining or evaluating the content or accuracy and we do not warrant and will not have any liability or responsibility for any third-party materials or websites, or for any other materials, products, or services of third-parties.

We are not liable for any harm or damages related to the purchase or use of goods, services, resources, content, or any other transactions made in connection with any third-party websites. Please review carefully the third-party's policies and practices and make sure you understand them before you engage in any transaction. Complaints, claims, concerns, or questions regarding third-party products should be directed to the third-party.

## **SECTION 11 - USER COMMENTS, FEEDBACK AND OTHER SUBMISSIONS**

If, at our request, you send certain specific submissions (for example contest entries) or without a request from us you send creative ideas, suggestions, proposals, plans, or other materials, whether online, by email, by postal mail, or otherwise (collectively, 'comments'), you agree that we may, at any time, without restriction, edit, copy, publish, distribute, translate and

otherwise use in any medium any comments that you forward to us. We are and shall be under no obligation (1) to maintain any comments in confidence; (2) to pay compensation for any comments; or (3) to respond to any comments.

We may, but have no obligation to, monitor, edit or remove content that we determine in our sole discretion are unlawful, offensive, threatening, libelous, defamatory, pornographic, obscene or otherwise objectionable or violates any party's intellectual property or these Terms of Service.

You agree that your comments will not violate any right of any third-party, including copyright, trademark, privacy, personality or other personal or proprietary right. You further agree that your comments will not contain libelous or otherwise unlawful, abusive or obscene material, or contain any computer virus or other malware that could in any way affect the operation of the Service or any related website. You may not use a false e-mail address, pretend to be someone other than yourself, or otherwise mislead us or third-parties as to the origin of any comments. You are solely responsible for any comments you make and their accuracy. We take no responsibility and assume no liability for any comments posted by you or any third-party.

## **SECTION 12 - PERSONAL INFORMATION**

Your submission of personal information through the site is governed by our Privacy Policy.

## **SECTION 13 - ERRORS, INACCURACIES AND OMISSIONS**

Occasionally there may be information on our site or in the Service that contains typographical errors, inaccuracies or omissions that may relate to product descriptions, pricing, promotions, offers, product shipping charges, transit times and availability. We reserve the right to correct any errors, inaccuracies or omissions, and to change or update information or cancel orders if any information in the Service or on any related website is inaccurate at any time without prior notice (including after you have submitted your order).

We undertake no obligation to update, amend or clarify information in the Service or on any related website, including without limitation, pricing information, except as required by law. No specified update or refresh date applied in the Service or on any related website, should be taken to indicate that all information in the Service or on any related website has been modified or updated.

## **SECTION 14 - COPYRIGHTS, TRADEMARKS**

The design of this Website and products and all text, graphics, information, content, and other material displayed on or that can be downloaded from this Website are protected by copyright, trademark and other laws. The contents of this Website are Copyright (c) 2015, 2016, 2017 Amino Labs Inc, or their respective affiliates and suppliers. All rights reserved. Any unauthorized use of any such information or materials may violate copyright laws, trademark laws, laws of privacy and publicity, and other laws and regulations. Certain trademarks, trade names, service marks and logos used or displayed on this Website are registered and unregistered trademarks, trade names and service marks of Amino Labs and its affiliates. Other trademarks, trade names and service marks used or displayed on this Website are the registered and unregistered trademarks, trade names and service marks of their respective owners. Nothing contained on this Website grants or should be construed as granting, by implication, estoppel, or otherwise, any license or right to use any trademarks, trade names, service marks or logos displayed on this Website without the written permission of Amino Labs or such other owner.

# Terms of Service

## SECTION 15 - PROHIBITED USES

In addition to other prohibitions as set forth in the Terms of Service, you are prohibited from using the site or its content: (a) for any unlawful purpose; (b) to solicit others to perform or participate in any unlawful acts; (c) to violate any international, federal, provincial or state regulations, rules, laws, or local ordinances; (d) to infringe upon or violate our intellectual property rights or the intellectual property rights of others; (e) to harass, abuse, insult, harm, defame, slander, disparage, intimidate, or discriminate based on gender, sexual orientation, religion, ethnicity, race, age, national origin, or disability; (f) to submit false or misleading information; (g) to upload or transmit viruses or any other type of malicious code that will or may be used in any way that will affect the functionality or operation of the Service or of any related website, other websites, or the Internet; (h) to collect or track the personal information of others; (i) to spam, phish, pharm, pretext, spider, crawl, or scrape; (j) for any obscene or immoral purpose; or (k) to interfere with or circumvent the security features of the Service or any related website, other websites, or the Internet. We reserve the right to terminate your use of the Service or any related website for violating any of the prohibited uses.

## SECTION 16 - DISCLAIMER OF WARRANTIES; LIMITATION OF LIABILITY

We do not guarantee, represent or warrant that your use of our service will be uninterrupted, timely, secure or error-free. We do not warrant that the results that may be obtained from the use of the service will be accurate or reliable. You agree that from time to time we may remove the service for indefinite periods of time or cancel the service at any time, without notice to you.

You expressly agree that your use of, or inability to use, the service is at your sole risk. The service and all products and services delivered to you through the service are (except as expressly stated by us) provided 'as is' and 'as available' for your use, without any representation, warranties or conditions of any kind, either express or implied, including all implied warranties or conditions of merchantability, merchantable quality, fitness for a particular purpose, durability, title, and non-infringement.

In no case shall Amino Labs, our directors, officers, employees, affiliates, agents, contractors, interns, suppliers, service providers or licensors be liable for any injury, loss, claim, or any direct, indirect, incidental, punitive, special, or consequential damages of any kind, including, without limitation lost profits, lost revenue, lost savings, loss of data, replacement costs, or any similar damages, whether based in contract, tort (including negligence), strict liability or otherwise, arising from your use of any of the service or any products procured using the service, or for any other claim related in any way to your use of the service or any product, including, but not limited to, any errors or omissions in any content, or any loss or damage of any kind incurred as a result of the use of the service or any content (or product) posted, transmitted, or otherwise made available via the service, even if advised of their possibility. Because some states or jurisdictions do not allow the exclusion or the limitation of liability for consequential or incidental damages, in such states or jurisdictions, our liability shall be limited to the maximum extent permitted by law.

## SECTION 17 - INDEMNIFICATION

You agree to indemnify, defend and hold harmless Amino Labs and our parent, subsidiaries, affiliates, partners, officers, directors, agents, contractors, licensors, service providers, subcontractors, suppliers, interns and employees, harmless from any claim or demand, including reasonable attorneys' fees, made by any third-party due to or arising out of your breach of these Terms of Service or the documents they incorporate by reference, or your violation of any law or the rights of a third-party.

## SECTION 18 - SEVERABILITY

In the event that any provision of these Terms of Service is determined to be unlawful, void or unenforceable, such provision shall nonetheless be enforceable to the fullest extent permitted by applicable law, and the unenforceable portion shall be deemed to be severed from these Terms of Service, such determination shall not affect the validity and enforceability of any other remaining provisions.

## SECTION 19 - TERMINATION

The obligations and liabilities of the parties incurred prior to the termination date shall survive the termination of this agreement for all purposes. These Terms of Service are effective unless and until terminated by either you or us. You may terminate these Terms of Service at any time by notifying us that you no longer wish to use our Services, or when you cease using our site.

If in our sole judgment you fail, or we suspect that you have failed, to comply with any term or provision of these Terms of Service, we also may terminate this agreement at any time without notice and you will remain liable for all amounts due up to and including the date of termination; and/or accordingly may deny you access to our Services (or any part thereof).

## SECTION 20 - ENTIRE AGREEMENT

The failure of us to exercise or enforce any right or provision of these Terms of Service shall not constitute a waiver of such right or provision. These Terms of Service and any policies or operating rules posted by us on this site or in respect to The Service constitutes the entire agreement and understanding between you and us and govern your use of the Service, superseding any prior or contemporaneous agreements, communications and proposals, whether oral or written, between you and us (including, but not limited to, any prior versions of the Terms of Service).

Any ambiguities in the interpretation of these Terms of Service shall not be construed against the drafting party.

## SECTION 21 - GOVERNING LAW

These Terms of Service and any separate agreements whereby we provide you Services shall be governed by and construed in accordance with the laws of Ontario, Canada.

## SECTION 22 - CHANGES TO TERMS OF SERVICE

You can review the most current version of the Terms of Service at any time at this page. We reserve the right, at our sole discretion, to update, change or replace any part of these Terms of Service by posting updates and changes to our website. It is your responsibility to check our website periodically for changes. Your continued use of or access to our website or the Service following the posting of any changes to these Terms of Service constitutes acceptance of those changes.

## SECTION 23 - CONTACT INFORMATION

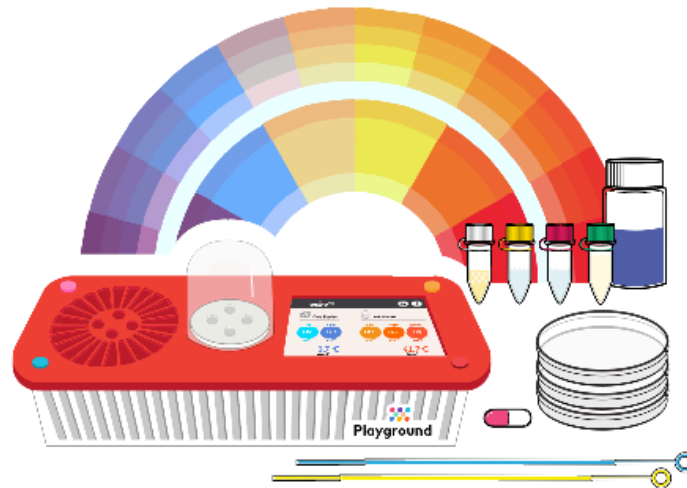
Questions about the Terms of Service should be sent to us at [info@amino.bio](mailto:info@amino.bio)

AMINO LABS, AMINO LABORATORIES, DNA PLAYGROUND, DNA BREWER, BLANK CELLS, ENGINEER-IT KIT, BREW-IT KIT BIOPRODUCTION KIT, BIOPRODUCTION LAB, AMINO ONE, AMINO BIOLAB, VIRTUAL BIOENGINEER, BIOCYBER WORKSHOP, PERSONAL BIOREACTOR LABORATORY, PERSONAL BIOLAB, ABES, ACCESSIBLE BIO(BIOLOGY) EDUCATION STANDARD, DNAPI are trademarks or registered marks of Amino Labs Inc. **All rights reserved**





**amino** labs



[www.amino.bio](http://www.amino.bio)