
Lab 10: Bacterial Transformation, part 2, DNA plasmid preps, Determining DNA Concentration and Purity

Today you analyze the results of your bacterial transformation from last week and determine the efficiency of your transformation. You will also perform a small-scale DNA plasmid preparation, which involves isolating a DNA plasmid from bacterial cells (effectively the opposite of transformation). Finally, you will use the spectrophotometer to determine the concentration and purity of a DNA sample.

Activity 10a

Transformation, Part 2: Calculating Transformation Efficiency

Purpose

The purpose of this activity is to observe the results from the bacterial transformation you performed last week. You will observe the four agar plates to see if the results match the predictions you made last week. You will also calculate the efficiency of your transformation to quantitatively determine the relative success of the transformation procedure.

Procedure

1. Use a data table similar to Table 10.1 below to record data from your bacterial transformation experiment. Observe your group's plates using the UV lamp and record what you see on each of the four plates. In your observations, note whether you see bacterial colonies, and whether the colonies fluoresce (*glow*) green under the UV light.

Table 10.1 Bacterial Transformation Observations

Plates	Observations
+pGLO, LB/amp	
+pGLO, LB/amp/ara	
-pGLO, LB/amp	
-pGLO, LB	

Answers For Classzone Bacterial Transformation Lab

Marlene Kent



Answers For Classzone Bacterial Transformation Lab:

Advanced Biology Lab Investigations Marlene Kent, 2013-12-24 This manual contains 24 labs and is aligned with the first year college advanced placement level high school biology curriculum standards and science practices There are eight main lab investigations two for each AP Bio Big Idea each including a student guided inquiry 1 DIFFUSION AND OSMOSIS Surface area and cell size modeling osmosis in live water plant cells 2 CHANGES WITHIN POPULATIONS SPTC taste test global analysis simulations of changes within populations Equilibrium Natural Selection Genetic Drift mathematical modeling of allele frequencies within a population 3 EVOLUTIONARY RELATIONSHIPS Cladogram construction biochemical analyses of gene and protein sequence % similarities and differences BLAST database tutorial and cladogram construction for comparing evolutionary relationships Entrez Gene database tutorial comparing normal gene sequences to chromosomal aberrations in human diseases 4 MITOSIS and MEIOSIS Loss of cell cycle control analysis in cancer cells using human karyotypes environmental abiotic effects on mitotic rates and data analysis for significance student guided inquiry on environmental effects on mitosis and crossing over in meiosis demonstrating increased genetic variability in subsequent generations 5 ENZYME ACTIVITY Catalase enzyme and breakdown of toxins in the liver enzyme specificity using lactase enzyme rates of reaction assay and baseline effects of pH on enzymatic activity and student guided inquiry for other potential environmental effects on enzyme activity 6 PHOTOSYNTHESIS AND CELLULAR RESPIRATION Predictions on effect of different abiotic conditions on photosynthesis and the effect of exercise on cellular respiration waste product production rates measuring photosynthesis and cellular respiration rates using the Floating Leaf Disk technique 7 BIOTECHNOLOGY BACTERIAL TRANSFORMATION Biotechnology simulation of transforming the human insulin making gene into a bacterial plasmid bacterial transformation of the jellyfish gene for green fluorescence into E coli transformation efficiency calculations and student guided inquiry of the newly transformed bacterial colonies 8 ENERGY DYNAMICS Environmental impact of eating at lower trophic levels energy transfer and productivity lab using yeast fermentation of corn sugar into ethanol and carbon dioxide and student guided inquiry on variables that could potentially increase the rate of fermentation for biofuel production

Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, Natureis Adventure: **Answers For Classzone Bacterial Transformation Lab** . This immersive experience, available for download in a PDF format (*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

<https://netdata.businessstraveller.com/About/uploaded-files/default.aspx/biology%20higher%20past%20papers%20aqa.pdf>

Table of Contents Answers For Classzone Bacterial Transformation Lab

1. Understanding the eBook Answers For Classzone Bacterial Transformation Lab
 - The Rise of Digital Reading Answers For Classzone Bacterial Transformation Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Classzone Bacterial Transformation Lab
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Classzone Bacterial Transformation Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Classzone Bacterial Transformation Lab
 - Personalized Recommendations
 - Answers For Classzone Bacterial Transformation Lab User Reviews and Ratings
 - Answers For Classzone Bacterial Transformation Lab and Bestseller Lists
5. Accessing Answers For Classzone Bacterial Transformation Lab Free and Paid eBooks
 - Answers For Classzone Bacterial Transformation Lab Public Domain eBooks
 - Answers For Classzone Bacterial Transformation Lab eBook Subscription Services
 - Answers For Classzone Bacterial Transformation Lab Budget-Friendly Options

6. Navigating Answers For Classzone Bacterial Transformation Lab eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Classzone Bacterial Transformation Lab Compatibility with Devices
 - Answers For Classzone Bacterial Transformation Lab Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Classzone Bacterial Transformation Lab
 - Highlighting and Note-Taking Answers For Classzone Bacterial Transformation Lab
 - Interactive Elements Answers For Classzone Bacterial Transformation Lab
8. Staying Engaged with Answers For Classzone Bacterial Transformation Lab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Classzone Bacterial Transformation Lab
9. Balancing eBooks and Physical Books Answers For Classzone Bacterial Transformation Lab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Classzone Bacterial Transformation Lab
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Classzone Bacterial Transformation Lab
 - Setting Reading Goals Answers For Classzone Bacterial Transformation Lab
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Classzone Bacterial Transformation Lab
 - Fact-Checking eBook Content of Answers For Classzone Bacterial Transformation Lab
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

Answers For Classzone Bacterial Transformation Lab Introduction

Answers For Classzone Bacterial Transformation Lab Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Answers For Classzone Bacterial Transformation Lab Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Answers For Classzone Bacterial Transformation Lab : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Answers For Classzone Bacterial Transformation Lab : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Answers For Classzone Bacterial Transformation Lab Offers a diverse range of free eBooks across various genres. Answers For Classzone Bacterial Transformation Lab Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Answers For Classzone Bacterial Transformation Lab Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Answers For Classzone Bacterial Transformation Lab, especially related to Answers For Classzone Bacterial Transformation Lab, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Answers For Classzone Bacterial Transformation Lab, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Answers For Classzone Bacterial Transformation Lab books or magazines might include. Look for these in online stores or libraries. Remember that while Answers For Classzone Bacterial Transformation Lab, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Answers For Classzone Bacterial Transformation Lab eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Answers For Classzone Bacterial Transformation Lab full book , it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Answers For Classzone Bacterial Transformation Lab eBooks, including some popular titles.

FAQs About Answers For Classzone Bacterial Transformation Lab Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Answers For Classzone Bacterial Transformation Lab is one of the best book in our library for free trial. We provide copy of Answers For Classzone Bacterial Transformation Lab in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Answers For Classzone Bacterial Transformation Lab. Where to download Answers For Classzone Bacterial Transformation Lab online for free? Are you looking for Answers For Classzone Bacterial Transformation Lab PDF? This is definitely going to save you time and cash in something you should think about.

Find Answers For Classzone Bacterial Transformation Lab :

[biology higher past papers aqa](#)

boeing 777 maintenance manual checks

~~199mercedes e 320~~

~~natures paintbrush the patterns and colors around you~~

where can i buy game of thrones books

1990 yamaha cv30 hp outboard service repair manual

~~toyota land cruiser prado manual 2003~~

fall from the sky the story of daedalus

sell international edition textbooks

2005 hyundai tiburon factory service repair workshop manual

mig 29 manual

manual nissan almera 2003

elasticity solution manual barber

romeo and juliet study guide queensland curriculum

activators skateboarding all you need to know

Answers For Classzone Bacterial Transformation Lab :

there s no limit to the connected sex toys you can build at home - Nov 29 2022

web may 9 2018 the voice enabled mistress alexa may be deviant designs most famous creation yet but it s only one of a fleet of smart sex toys that its creators have dreamed up british couple gary and kirsty

the triple threat elastrated viced tasered balls - Sep 08 2023

web feb 20 2022 it s nice having a set of balls you can torture i recommend it to every girl next i place his balls into a wooden vise the cool thing about this vice is that it has clear plastic on one side so i can see his balls getting more and more crushed

electric cables hammers and guns ukrainians tell of russian torture - Apr 22 2022

web oct 23 2023 as prosecutors prepare war crimes case victims reveal how they were beaten and made to dig own graves in balakliia when in early march 2022 lt col valery sergeyevich buslov a 46 year old

parrilla urethra a sequale of electric shock torture to genitals in - Jun 05 2023

web objective to document electric shock torture to genitals as an etiologic agent in urethral stricture and erectile dysfunction amongst survivors of electric torture introducing the term parrilla urethra for the electric shock torture urethral stricture

remote control ring electro shock ring cock ball scrotum - Dec 31 2022

web features specifications remote control distance reaches to 15 meters can vibrate audio and pulse adjustable from the controller effective stimulating penis testicles hook and loop design easy to use adjustable elastic fit most penis sizes

torture chair wrench to the testicles youtube - Jul 26 2022

web oct 4 2013 ouch comment your reaction gta v gameplay and great moment from the game grand theft auto 5 in los santos see more at youtube com blackoo

woman torture video footage browse 2 129 hd stock video - Jun 24 2022

web 4k hd 00 07 hd 00 08 4k hd 00 23 4k hd find the best woman torture stock videos and footage for your project download royalty free stock videos from adobe s collection

silicone electric shock testicle cage and controller - Oct 09 2023

web 50 00 shipping calculated at checkout color add to cart share tweet pin it shock the soul out of your balls with this

silicone testicle cage and remote toy it has different settings for various different effects which are fun to discover by trial and error

in a first a man receives a whole eye transplant after surviving - Mar 22 2022

web 1 day ago aaron james before his accident courtesy james family in 2021 james survived what should have been a fatal electric shock while he was working as a high voltage lineman his face accidentally

the torturer s apprentice ballbustingstacy - Jul 06 2023

web oct 21 2020 now with these needles we can apply the electricity right in the middle of the testicle its absolutely foolproof because no doctor inspecting a returned soldier is going to split his ball open to check for burns

electric ball torture porn videos pornhub com - Feb 18 2022

web watch electric ball torture porn videos for free here on pornhub com discover the growing collection of high quality most relevant xxx movies and clips no other sex tube is more popular and features more electric ball torture scenes than pornhub

penis torture chambers used to stop people masturbating lj - Oct 29 2022

web jul 20 2019 this confession would undoubtedly unleash a diagnosis of spermatorrhoea a so called illness that sparked an influx of anti masturbation devices that looked exactly like penis

electric shocks clamped penises inside putin s crimea torture - May 24 2022

web jun 24 2021 vladimir putin s hellish torture dungeons are allegedly giving trapped detainees electric shocks and iron pipe beatings in occupied crimea say horrific reports terrified victims penises are even being clamped to cruelly force them into submission add human rights campaigners 10

robin s electrical torture miss spiteful s bondage and - Aug 27 2022

web i was lying spread eagled my arms and legs tightly secured with ropes that dragged them wide apart i was gagged and she had connected my genitals to her electrical device she had moved a chair to sit beside me the device on her lap the session was only just half way over this is what you came for slave she smiled electrical torture

electro shock device out of a 9v adapter instructables - Mar 02 2023

web this is a shock device what you can use as a taser or a torture device i have tried it and i m alive the output voltage is about 600 1000 volts in the maximum strenght the power source is a 9v battery so you don t have to worry about any mistakes or

gimpaspasm rides the x1 interrogator yngmstrdetroit com - May 04 2023

web may 6 2021 gimpaspasm rides the x1 interrogator i have a new favorite thing i m a big fan of electrostim in all of its forms it s my favorite thing to do to a submissive playmate i can make electro feel like anything from a tickle to a buzz to a full on endless mind scrambling jolt to the balls

cock and ball torture wikipedia - Apr 03 2023

web erotic electrostimulation hanging weight on pierced penis chastity piercing similar to many other sexual activities cbt can be performed using toys and devices to make the penis and testicles more easily accessible for attack or for foreplay purposes 3 4 ball stretcher a metal ball stretcher and which forces penis

castration archives deviance desire - Feb 01 2023

web cbt cock and ball torture part 1 by fledermaus aka tony deblase this is part 1 of a two part article on cbt by the late tony deblase part 2 includes piercing urethral invasion electrotorture and scrotal inflation you can find it here as a sadist i can say without equivocation there is nothing in the world i find more beautiful than the

evil shells ball stretching ball press hot steel toys - Sep 27 2022

web evil shell new ball torture tool which makes possible ot press stertch each of the balls separately just put the balls between the jaws and tighten the screws the screws close the halves together and itt already has some pressing effect especially for larger balls the small screws work as adjustable spikes

sack stim erostek blog - Aug 07 2023

web i know that some of you like it intense and i ll explain a means of applying a mechanical and electrical force that you ll definitely feel in your balls to continue let s describe what we call a common electrode and see how the electrocup aka ecup is

administrative assistant test free practice questions 2023 - Oct 10 2022

web oct 28 2021 administrative assistant test free practice questions 2023 administrative support sample test office administrative assistant tests free

aama cma aama exam - Aug 28 2021

administrative assistant skill assessment quizack - Apr 04 2022

web what be an administrative assistant aptitude test traditional aptitude tests are often used to probe deeper into an candidate s skills and find where the strengths and

administrative assistant test free practice questions 2023 - Sep 28 2021

administrative assistant aptitude tests preparation - Dec 12 2022

web may 17 2021 prepare for office admin tests with 18 practice tests and 232 questions answers written via industry other conditions concerning of role include strong

administrative assistant test free practice questions 2023 - Sep 09 2022

web oct 28 2022 admin test 2023 study guide practice questions how to study and pass the admin test last updated on october 28 2022 the admin test will

administrative assistant test free practice questions 2023 - Jun 18 2023

aptitude tests are designed to assess a range of skills depending on the test taken and to help employers determine who might be the see more

free administrative assistant assessment test guide test prep - May 05 2022

web this screening test will help you hire an administrative assistant who can increase the day to day efficiency and organization of your team s work covered skills verbal and

use our administrative assistant test to hire the best - Mar 03 2022

web the administrative assistant test helps in the recruitment of roles focused on administrative tasks because the nature of these roles is varied it could involve

administrative assistant skills assessment how to - May 17 2023

web applying to be an administrative assistant prepare since office admin tests with 18 practice tests and 232 questions answered written by experts

administrative assistant and support practice exam - Oct 30 2021

web cma aama exam about the exam exam eligibility requirements alternative pathway exam application steps apply for the exam psi exam scheduling study for the

free online administrative exam practice quiz - Jun 06 2022

web administrative assistant test mcqs with answers are research based practice test online to deal with any job interviews online assessments and it exams

administrative assistant test free practice questions 2023 - Feb 02 2022

web sep 5 2023 this quiz will test a few key skills which are important for the administrative assistant position available questions 46 attempts 566 last updated sep 5 2023

administrative assistant quizzes questions answers - Nov 30 2021

web 18 tests 210 questions administrative assistants can work in almost every industry making it an attractive rolling for a wide variety of people office administration

administrative assistant quiz online test yourself - Mar 15 2023

web may 17 2021 the administrative assistant exam scores candidates competency inbound attention to download basic excel spreadsheets time management written

administrative assistant test executive assistant test - Nov 11 2022

web may 17 2021 administrative assistant test free practice questions 2023 work samples and simulations company
administrative assistant tests clerical exercise

administrative assistant test free practice questions 2023 - Feb 14 2023

web an administrative assistant test is a type of examination that assesses an individual s ability to perform clerical duties
associated with the role of an administrative assistant

administrative assistant test free practice questions 2023 - Aug 08 2022

web free online administrative exam practice quiz comprehensive online success test study guide includes free practice exam
with detailed answer key immediate

administrative assistant test testdome - Jul 19 2023

administrative assistants are required to support the smooth running of an office or a senior individual or team s diaries it s
essential therefore that you re naturally organised if you want see more

administrative assistant test free practice - Aug 20 2023

traditional aptitude tests are often used to probe deeper into a candidate s skills and discover where their strengths and
weaknesses lie in the case of administrative assistants psychometric tests are used to measure specific skills for example
verbal reasoning tests for comprehension and communication see more

administrative assistant testlify - Apr 16 2023

web the pre recruitment test for administrative assistants measures the candidate s ability to assist with administrative tasks
using effective communication

admin test 2023 study guide practice questions - Jul 07 2022

web this is a free guide for the administrative assistant assessment test gather information regarding your upcoming
administrative assistant assessment test practice your

administration assistant skills assessment test vervoe - Jan 13 2023

web administrative assistant test is designed to evaluate the critical skills required to perform well in the job from testing
candidates general aptitude to testing candidates on

administrative assistant test find the best job candidates - Jan 01 2022

web an administrative assistant and support practice exam takes all the guesswork out of studying you see when it comes to
an exam like the administrative assistant and

oklahoma banker mandates to influence investment decisions - Oct 15 2021

web nov 7 2023 the honourable filomena tassi minister responsible for the federal economic development agency for
southern ontario feddev ontario will make an

government of canada to announce support for new health - Sep 13 2021

investment science solutions manual oxford university press - Jul 04 2023

web investment science solutions manual oup new york investment science is designed for the core theoretical finance course in quantitative investment and for those

solutions manual for investment science google books - Sep 06 2023

web solutions manual for investment science david g luenberger oxford university press 1998 cash flow 101 pages investment science is designed for the core theoretical

solution manual for investment science by david luenberger - Sep 25 2022

web unlike static pdf investment science 2nd edition solution manuals or printed answer keys our experts show you how to solve each problem step by step no need to wait for

solutions manual for investment science rent chegg - Jan 30 2023

web summary this solutions manual for investment science is a gratis supplement available to instructors who are using or are considering using the parent text in their

investment science solutions manual ebin pub - Jan 18 2022

web sep 9 2017 the following investment science by david luenberger solutions manual e book is listed within our database as jnmfmrnoxy with file

investment science 2nd edition solution manual pdf - May 22 2022

web luenberger d g oup 1998 md5 of a better version of this file if applicable fill this in if there is another file that closely matches this file same edition same file extension if you

solution manual for investment science by david luenberger - Nov 27 2022

web 257225809 solution manual for investment science by david luenberger chapter 2 the basic theory of studocu skip to document my library delhi public school damanjodi

solutions manual for investment science gratis to those ado - Feb 28 2023

web mar 12 1998 coupon rent solutions manual for investment science 1st edition 9780195125177 and save up to 80 on textbook rentals and 90 on used textbooks

investment science solutions manual z library - Mar 20 2022

web investment science 2nd edition isbn 13 9780199740086 isbn 199740089 authors david g luenberger rent buy this is an alternate isbn view the primary isbn for

investment science by david luenberger solutions manual issuu - Dec 17 2021

web dec 29 2017 get solutions manual investment science pdf file for free from our online library solutions manual

investment science the main topic of this pdf is

[solutions manual for investment science worldcat org](#) - Dec 29 2022

web the basic theory of interest 1 a nice inheritance use the 72 rule years 1994 1776 218 years a i 3 3 years required for inheritance to double zf 8 21 8 times

investment science solutions manual goodreads - Jun 03 2023

web investment science solutions manual get access now with get started select your edition below by 0 editions author david g luenberger 0 solutions frequently asked

257225809 solution manual for investment science by david - Oct 27 2022

web lecture 1 introduction 1 cash flows an investment is defined as the current commitment of resources or money in order to achieve later benefits which are often uncertain

solutions manual investment science by v3422 issuu - Nov 15 2021

web 1 day ago americans are best served when banks can pursue a free market approach to make lending and investment decisions and imposing regulations on banks to drive

econpapers solutions manual for investment science gratis to - Aug 05 2023

web abstract this solutions manual for investment science will be a gratis supplement available to instructors who are using or are considering using the parent text in their

chapter 2 solutions investment science 2nd edition chegg - Feb 16 2022

web solutions manual investment science solutions manual 167 111 786kb english pages 94 year 1998 report dmca copyright download djvu file author uploaded

[investment science 2nd edition amazon com](#) - Jun 22 2022

web investment science 2nd edition solution manual pdf it is an overview text touching on many subject investment science 2nd edition solution manual pdf emphasizes the

investment science solutions manual open library - Apr 01 2023

web this solutions manual for investment science will be a gratis supplement available to instructors who are using or are considering using the parent text in their courses it will

solution manual for investment science by david - Oct 07 2023

web solution manual for investment science by david luenberger free download as pdf file pdf text file txt or read online for free answers to investment science by

investment science 2nd edition textbook solutions chegg com - Aug 25 2022

web download solution manual for investment science by david luenberger free in pdf format

[investment science solution manual chegg com](#) - May 02 2023

web created by an anonymous user imported from amazon com record investment science solutions manual by david g luenberger march 1998 oxford university press

investment science solutions manual anna s archive - Apr 20 2022

web download investment science solutions manual book for free from z library 22 525 200 books books 84 837 643 articles articles toggle navigation sign in login

[solution manual for investment science by david luenberger](#) - Jul 24 2022

web jun 24 2013 investment science second edition provides thorough and highly accessible mathematical coverage of the fundamental topics of intermediate