

# Positive Control Kit

## For Validating Quality of:

UltraSnap® (US2020), SnapShot (All SKUs), SuperSnap® (SUS3000/SUS3000X), SpotCheck Plus (GIL100)  
(Part No: CK25 (25 vials))



### Description/ Intended Use:

Positive Control Kit is intended to be used for validating efficacy and quality of UltraSnap, SnapShot, SuperSnap, and SpotCheck Plus test devices. The kit comes with 25 sealed glass vials containing approximately  $5 \times 10^{-12}$  moles of lyophilized adenosine triphosphate (ATP) and sugars to provide a predictable result if devices are used and stored correctly. Each vial provides a sample which produces a positive result when assayed with above Hygiena® products. It is recommended Positive Controls be used to test one device in each bag of test devices or whenever there is concern about product storage temperature. Incorporating Positive Control Kit into an overall Quality Control program will validate results of test devices. In addition to validating test device quality, Hygiena recommends calibration verification of EnSURE® Touch, EnSURE® or SystemSURE Plus™ luminometers with Calibration Control Kit (Part # PC04000).

### Directions:

1. Remove one Positive Control vial from kit box. Carefully remove crimped aluminum seal from top of vial. Without touching inner rim of vial, remove and discard rubber stopper.
2. Allow test device to equilibrate to room temperature (21 – 25 °C) before use. Holding swab tube firmly, twist and pull top of swab out of swab tube. Condensation may be visible on inside of swab tube; this is normal.
3. In a circular motion, swab bottom of Positive Control vial 10 times, taking care to reconstitute all freeze-dried material (white crystals) at bottom. In order to collect entire sample, apply constant pressure while swabbing and rotating swab inside vial.
4. After swabbing, replace swab back in swab tube and discard used vial.
5. To activate device, hold swab tube firmly and use thumb and forefinger to break Snap-Valve by bending bulb forward and backward. Squeeze bulb twice, expelling all liquid down swab shaft.
6. Soak swab bud in liquid by shaking for 5 – 10 seconds.
7. Once activated, ATP test devices must be read in luminometer within 30 seconds.
8. For SpotCheck Plus, devices that do not require a luminometer, activate device according to steps 5 and 6 above, then wait for color reaction that occurs in 60 seconds.

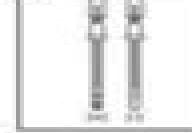
### Positive Control Results for Hygiena ATP Devices:

	Test Results (RLU)	
Luminometer	UltraSnap	SuperSnap
EnSURE and EnSURE Touch	200+	600+
SystemSURE Plus	100+	300+

### Troubleshooting ATP Results for Hygiena Test Devices:

#### Lower RLU Results:

Lower than expected RLU's with an activated device may indicate insufficient sample collection, or devices are not performing as expected. If RLU result is below minimum RLU detailed above, a more thorough swabbing of vial may be necessary. Repeat with another test device from same package.



and new Positive Control vial, holding luminometer vertically while taking reading. Check luminometer calibration with Calibration Control Kit (Part # PC04000). If luminometer is calibrated correctly and test device results are still low, contact Hygiena/distributor to order new test devices.

#### 0 RLU Result:

Reading of 0 RLU may be due to device not being activated properly. Activate device and re-read in luminometer. Refer to product kit insert and/or instructional videos for activation instruction.

### Positive Control Results for SnapShot ATP Devices:

Because Snapshot devices are used in luminometers not manufactured by Hygiena, determining an exact RLU output range by Positive Control can vary depending on luminometer calibration; therefore, a Positive Control can be used to show activity in Snapshot devices. Contact Hygiena/distributor for additional support.

### Positive Control Results for SpotCheck Plus (GIL100):

SpotCheck Plus will change color from clear to green in less than 60 seconds. If color change does not occur, ensure thorough sample collection was achieved. If color change still does not occur with proper sample collection and activation, contact Hygiena/distributor to order new test devices.

### ATP Negative Control:

Negative Control result (background test) is just as important as the Positive Control result. Negative Control results are obtained by inserting new, unopened, activated swab device into luminometer and reading. Negative Control results should be from 0 to 2 RLU. Readings of 5 RLU or higher may indicate contamination of luminometer read chamber or luminometer is out of calibration. For best results with Negative Control, slowly insert swab device in luminometer to avoid static charge buildup and allow swab device to sit in chamber with lid closed for 2 minutes before initiating measurement.

### Incorporating Controls Into a Quality Control Program:

Positive Control Kit was designed to be incorporated into a Quality Control program that monitors and tracks performance of Hygiena equipment and/or devices. When using Positive Controls to test quality of Hygiena ATP systems, it is recommended that a program point (such as PROG 0) be assigned for Positive Control results. All results can be viewed directly from luminometer or downloaded to SureTrend™ data analysis software for tracking and trending results. Results should be evaluated on an ongoing, regular basis to ensure devices and luminometers are working according to specifications.

### Calibration Control:

It is advisable to run positive and negative controls according to Good Laboratory Practices. Hygiena offers the following control for Hygiena luminometers:

- Calibration Control Kit (Part # PC04000)

# Amp Kit User Guide

**Shane Gregory Phillip Hoffmann**

## Amp Kit User Guide:

**Forensic DNA Analysis** Catherine Cupples Connon,2023-07-13 This volume focuses on the latest techniques used in forensic DNA analysis The chapters include a comprehensive collection of extraction quantification STR amplification and detection methods for routine forensic samples including manual semi automated and automated procedures using both home brew and commercial products The chapters also discuss probabilistic modeling software and specialized start to finish procedures for mitochondrial DNA analysis archived latent fingerprints latent DNA rapid DNA profiling and next generation sequencing Written in the highly successful Methods in Molecular Biology series format chapters include introduction to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and practical Forensic DNA Analysis Methods and Protocols is a valuable resource for researchers interested in learning more about forensic DNA analysis procedures

**Advanced Topics in Forensic DNA Typing: Methodology** John M. Butler,2011-07-27 Intended as a companion to the Fundamentals of Forensic DNA Typing volume published in 2009 Advanced Topics in Forensic DNA Typing Methodology contains 18 chapters with 4 appendices providing up to date coverage of essential topics in this important field and citation to more than 2800 articles and internet resources The book builds upon the previous two editions of John Butler's internationally acclaimed Forensic DNA Typing textbook with forensic DNA analysts as its primary audience This book provides the most detailed information written to date on DNA databases low level DNA validation and numerous other topics including a new chapter on legal aspects of DNA testing to prepare scientists for expert witness testimony Over half of the content is new compared to previous editions A forthcoming companion volume will cover interpretation issues Contains the latest information hot topics and new technologies Well edited attractively laid out and makes productive use of its four color format Author John Butler is ranked as the number one high impact author in legal medicine and forensic science 2001 to 2011 by ScienceWatch.com

*An Introduction to Forensic DNA Analysis, Second Edition* Norah Rudin,Keith Inman,2001-12-21 Significant advances in DNA analysis techniques have surfaced since the 1997 publication of the bestselling An Introduction to Forensic DNA Analysis DNA typing has become increasingly automated and miniaturized Also with the advent of Short Tandem Repeat STR technology even the most minute sample of degraded DNA can yield a profile providing valuable case information However just as the judicial system slowly and reluctantly accepted RFLP and AmpliTYP PM DQA1 typing it is now scrutinizing the admissibility of STRs Acknowledging STR typing as the current system of choice An Introduction to Forensic DNA Analysis Second Edition translates new and established concepts into plain English so that laypeople can gain insight into how DNA analysis works from sample collection to interpretation of results In response to the shift toward more efficient techniques the authors cover the legal admissibility of STR typing expand the chapter on DNA databases and revise the section on automated analysis They also present key decisions and appellate or supreme court

rulings that provide precedent at the state and federal levels Discussing forensic DNA issues from both a scientific and a legal perspective the authors of An Introduction to Forensic DNA Analysis Second Edition present the material in a manner understandable by professionals in the legal system law enforcement and forensic science They cover general principles in a clear fashion and include a glossary of terms and other useful appendices for easy reference

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**Forensic Genetic Approaches for Identification of Human Skeletal Remains** Angie Ambers, 2022-11-15 Forensic Genetic Approaches for Identification of Human Skeletal Remains Challenges Best Practices and Emerging Technologies provides best practices on processing bone samples for DNA testing The book outlines forensic genetics tools that are available for the identification of skeletal remains in contemporary casework and historical archaeological investigations Although the book focuses primarily on the use of DNA for direct identification or kinship analyses it also highlights complementary disciplines often used in concert with genetic data to make positive identifications such as forensic anthropology forensic odontology and forensic art sculpting Unidentified human remains are often associated with tragic events such as fires terrorist attacks natural disasters war conflicts genocide airline crashes homicide and human rights violations under oppressive totalitarian regimes In these situations extensive damage to soft tissues often precludes the use of such biological samples in the identification process In contrast bone material is the most resilient viable sample type for DNA testing DNA recovered from bone often is degraded and in low quantities due to the effects of human decomposition environmental exposure and the passage of time The complexities of bone microstructure and its rigid nature make skeletal remains one of the most challenging sample types for DNA testing Provides best practices on processing bone samples for DNA testing Presents detailed coverage of proper facilities design for skeletal remains processing selection of optimal skeletal elements for DNA recovery specialized equipment needed preparation and cleaning of bone samples for DNA extraction and more Highlights complementary disciplines often used in concert with genetic data to make positive identifications such as forensic anthropology forensic odontology and forensic art sculpting

**Investigative Studies Into the Recovery of DNA from Improvised Explosive Device Containers** Shane Gregory Phillip Hoffmann, 2008

**Journal of Forensic Sciences** ,1996 Includes papers read at the Academy s annual meeting previously published separately as Proceedings of the American Academy of Forensic Sciences     *Recovery and Quantification of Nuclear and Mitochondrial DNA from Improvised Explosive Devices Using Comparative Soaking and Swabbing Techniques* Kamila Maryam Gomez,2009     *Forensic Science Handbook* Richard Saferstein,2002 The second in a three volume series this popular and widely circulated professional handbook describes the theories and practices of today s criminalistics and covers a wide range of subject areas relevant to the services rendered by crime laboratories and related facilities Presents authoritative reviews from recognized forensic criminologists and forensic scientists well versed in their chosen areas of expertise Considers a specific examination technique for a wide range of evidence prevalent in the modern crime laboratory e g DNA hair paint soil glass petroleum products explosives alcohol in blood and breath and questioned documents Describes the theory operation and forensic utilization of such modern analytical instruments as mass spectrometry capillary electrophoresis high performance liquid chromatography and the visible microspectrophotometer Emphasizes the symbiotic relationship between forensic science and criminal law as it examines the role and conduct of the expert witness rules of evidence and the legal requirements governing the admissibility of scientifically evaluated evidence For professionals in forensic science and criminology     **Catalog** McMaster-Carr Supply Company,1996     Radio-electronics ,1984     **Newark Electronics** ,2009     **Systems Data Catalog** Intel Corporation,1982     The Use of Enhanced PCR Techniques for Nuclear DNA Analysis of Compromised Forensic Samples Lisa M. Ramos,2006     **Microwave Journal** ,1985     **ARRL Ham Radio Operating Guide** American Radio Relay League,1976     Audio ,1978     EDN ,1999     **Popular Electronics** ,1979     Byte ,1985

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## **Table of Contents Amp Kit User Guide**

1. Understanding the eBook Amp Kit User Guide
  - The Rise of Digital Reading Amp Kit User Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Amp Kit User Guide
  - 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 Amp Kit User Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Amp Kit User Guide
  - Personalized Recommendations
  - Amp Kit User Guide User Reviews and Ratings
  - Amp Kit User Guide and Bestseller Lists
5. Accessing Amp Kit User Guide Free and Paid eBooks
  - Amp Kit User Guide Public Domain eBooks
  - Amp Kit User Guide eBook Subscription Services
  - Amp Kit User Guide Budget-Friendly Options
6. Navigating Amp Kit User Guide eBook Formats

- ePub, PDF, MOBI, and More
- Amp Kit User Guide Compatibility with Devices
- Amp Kit User Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Amp Kit User Guide
- Highlighting and Note-Taking Amp Kit User Guide
- Interactive Elements Amp Kit User Guide

8. Staying Engaged with Amp Kit User Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Amp Kit User Guide

9. Balancing eBooks and Physical Books Amp Kit User Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Amp Kit User Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Amp Kit User Guide

- Setting Reading Goals Amp Kit User Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Amp Kit User Guide

- Fact-Checking eBook Content of Amp Kit User Guide
- 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

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