

Positive Control Kit

For Validating Quality of:

UltraSnap® (US2020), SnapShot (All SKUs), SuperSnap® (SUS3000/SUS3000X), SpotCheck Plus (GL100)

Part No: GK25 (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 5×10^{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 # PCD4000).

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. Bathe 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.

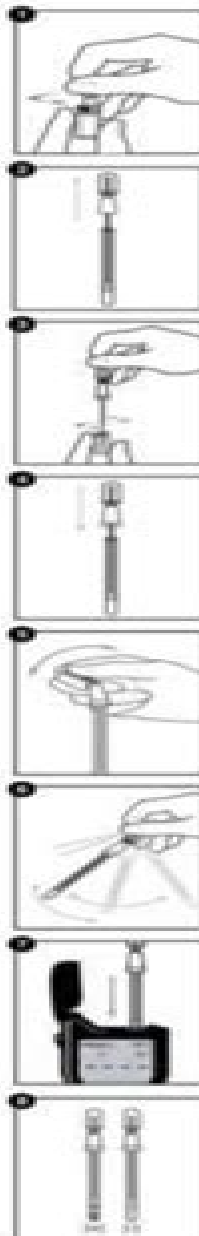
Positive Control Results for Hygiena ATP Devices:

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

Troubleshooting ATP Results for Hygiena Test Devices:

Low RLU Results

Lower than expected RLUs 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. Retest 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 #PCD4000). 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 reread 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 (GL100):

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 # PCD4000)

Amp Kit User Guide

Shane Gregory Phillip Hoffmann



Amp Kit User Guide:

Forensic DNA Analysis Catherine Cupples Cannon, 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 AmpliType 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

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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
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wire and the ground wire

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web aug 31 2017 step by step guide to wiring a motion sensor turn off the power at the main fuse box using a voltage and circuit tester test each wire to ensure the power is off attach the motion sensor s mounting strap to allow you to attach each wire before fully mounting your fixture pair the black supply wire with the black fixture wire

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web for single pole applications wire the sensor switch according to wiring diagram 1 using the wire nuts provided 1 the sensor black wire will connect to the hot wire black in the wall box 2 the sensor red wire will connect to the wire which goes to the light fixture 3 the sensor blue wire is not used and should be capped off with a wire nut

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