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EVIDENCE SUBMISSION GUIDELINES

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1 <u>General Submission Guidelines for Evidence Control</u> Centers, LIMS, and Pre-Log System

The KBI Forensic Science Laboratory accepts and examines evidence at no cost pertaining to all types of criminal cases from misdemeanors to felonies from qualified customers. All submissions should be connected to criminal investigations. Submissions will not be accepted from private individuals or corporations. The following describes the general requirements for submitting evidence to the laboratory. Refer to discipline specific evidence submission guidelines for additional instructions and limitations regarding evidence submission for specific testing.

1.1 Case and Item Information Submission Guidelines

Critical case information is entered into the Laboratory Information Management System (LIMS) when a case is submitted for analysis. This information can be entered by a KBI Evidence Control Center (ECC) Evidence Technician or can be entered by the contributing agency utilizing the LIMS Pre-Log System. An Evidence Custody Receipt (ECR) should accompany submitted evidence and contain the following information.

- Contributing agency case number, agency name, and originating agency identifier (ORI)
- County of offense, date of offense, and date items were collected
- Investigator name and contact information to include phone number and email address
- Victim name(s), suspect name(s), elimination name(s) and all available identifying information for the individuals such as DOB, SSN, DL, etc.
- Address and attention name destination for the Laboratory Report
- A list of each individual item submitted, with a description of the item, including relationships to victims/suspects/elimination, and the requested examinations.
- (Refer to Packaging and Sealing Guidelines and General Evidence Submission Guidelines below for more information regarding item submission.)

1.2 Packaging and Sealing Guidelines

Each case must be submitted and packaged separately. A single shipping container may be utilized to hold multiple cases.

- Items should be individually packaged, with the package marked for identification purposes, sealed, and grouped prior to submission by the type of exam to be conducted.
- (Exceptions: Latent print lifts or cartridge cases collected from a single item or in the same general area or swabs from the same area)
- Evidence should be packaged and stored in a manner which reduces the risk of loss, cross transfer, contamination and/or deleterious change.

- Evidence should not be packaged in containers which have remnants of evidence tape, markings or unique identifiers from submissions in other unrelated cases.
- Use packaging materials that are sufficiently larger than the evidence they contain to allow examiners room to easily reseal the evidence after they have completed their analysis of the evidence.
- Items for biology SHOULD NOT be packaged in plastic.
- Items of evidence submitted to the KBI must be properly sealed.
 - A container is properly sealed only if its contents cannot readily escape and only if entering the container results in obvious damage/alteration to the container or its seal.
 - Seals may be made using tamper indicating evidence tape, heat sealing of plastic bags, or tamper resistant adhesive seals. (e.g. manufacturer sealed flaps and joints of envelopes, bags, and boxes and field sealed evidence bags)
 - All evidence tape seals, heat seals, and field seals must have at a
 minimum the initials or identifying mark of the individual making the seal.
 (It is recommended but not required that the markings on the seal traverse
 the boundary between the seal and the packaging)

1.3 General Evidence Submission Guidelines

All evidence must be packaged to maintain the integrity of the evidence, chain of custody, and safety of future handlers.

1.3.1 Weapons, Firearms, and Explosive Devices

- All firearms must be unloaded and rendered safe. If ammunition is packaged with
 the firearm it should not be loose but be secured in such a way that it will not
 pose a future hazard through handling.
 (If a firearm cannot be unloaded prior to submission a Firearms Examiner should
 be contacted to assist in the safe submission of the item)
- The container holding the weapon must state that the firearm is unloaded or a statement will be required by the customer to the Evidence Technician declaring the safety of the firearm before submission of the evidence can occur.
- <u>No live explosives or explosive devices</u> will be accepted for examination. Any potentially harmful device must be rendered safe before it will be accepted by the Evidence Technician.

1.3.2 Hazardous Chemicals

Recently a number of very potent designer drugs have emerged that are dangerous or even fatal in very small quantities. Many of the hazardous materials have a similar appearance to other commonly encountered substances like cocaine, methamphetamine, and other controlled substances that are found in powder form and so they cannot be identified by appearance alone. These hazardous materials may also be incorporated in with other commonly encountered substances.

Therefore the following recommendations apply to all powder drug submissions:

- The material should be packaged in a sealed plastic bag that is packaged inside another sealed plastic bag (i.e. double-bagged).
- All items containing suspected fentanyl or other potent designer drugs should be marked as such and the Evidence Control Center should be notified prior to these items being submitted.

Additionally it is strongly recommended that:

- Field testing not be conducted on suspicious samples.
- Agencies should have in place and follow policies and safety procedures to protect their personnel from exposure to these dangerous materials.
- Agencies should provide their personnel with appropriate Personal Protective Equipment.(PPE)

1.3.3 Biohazard Containing Submissions

- All containers with evidence which may pose a biohazard threat should be clearly labeled as such.
 - Clothing, bedding, and other items containing body fluids should be dried prior to submission.
- "Sharps" (e.g. knifes, syringes, etc.) should be properly packaged in protective containers prior to submission. Syringes will not be routinely examined. Any liquid contained in a syringe should be transferred to a sample vial and submitted for analysis.
 - (Exceptions must be approved by the Laboratory Director or their designee)

1.3.4 Vape Pens/E-Cigarettes

 Batteries should be removed to prevent possible fire/explosion while in the laboratory custody. It is recommended that only the cartridge or portion of the vape pen / e-cigarette containing the material to be vaporized be submitted to the laboratory. If battery removal is not possible, place item in a metal can to submit to the laboratory.

2 Kansas Bureau of Investigation Laboratory Contacts

Forensic Science Center	Great Bend Regional Laboratory
2001 SW Washburn Ave.	625 Washington
Topeka, Kansas 66604	Great Bend, Kansas 67530
(785) 296-1137	(620) 603-7112
Pittsburg Regional Laboratory	Kansas City Regional Laboratory
821 N. Broadway	7250 State Avenue
Pittsburg, Kansas 66762	Kansas City, Kansas 66112
(620) 308-7576	(913) 942-3000

3 <u>Submission Guidelines for Chemistry Evidence</u>

3.1 Scope of Analysis Performed

The KBI Chemistry Section conducts examination of evidence for the presence of controlled substances, clandestine manufacture of controlled substances, general chemical unknowns and alcoholic beverages.

The Chemistry Section receives a high volume of case and item submissions. While we always strive to meet the needs of our customers, resources dictate that we prioritize what items are worked in each case. For large cases, scientists will use their best judgement in selecting which items are tested based on a number of factors including information provided by customers as to the relevance of the item, relative amounts of material in each item, speed of testing, etc. Customers are strongly encouraged to submit only items that are absolutely necessary for case construction. The following Chemistry submission guidelines will allow us to provide our customers with the highest quality service with the shortest turnaround times.

Please remember that these are guidelines and we are fully aware that not all cases will fit into this equation. We encourage you to call the laboratory in your service area with any scenario you encounter that does not fit these guidelines and ask for a chemistry scientist to assist you. We will do our best to address the special needs of your case.

3.2 General Guidelines

- Requested biology examinations must be performed prior to chemistry analysis
 and will delay examination completion. Drug evidence is not accepted for biology
 examinations. If there are circumstances that a biology exam is needed,
 approval from the Biology supervisor(s) or laboratory director is required prior to
 submission of the evidence.
- Items requiring fingerprint analysis should be packaged separately from drug evidence. If a case requires fingerprinting of drug containers, please separate them prior to submission and list them as separate items on the ECR.
- If multiple suspects are associated with the case, clearly mark on the ECR and/or
 evidence packaging which items are associated with each suspect. If not
 marked, the examiner may assume that the items are from one source and the
 items may not be examined if other items of the same type are present in the
 case.
- Clearly indicate any probable cause items on the ECR. If not marked as such, they may not be examined.
- Generally, evidence should be submitted as soon as possible. The Chemistry Section would like evidence submitted at least 60 days prior to the first trial date to allow the laboratory time to complete analysis before court.
 - Known court dates must be clearly identified upon submission of the evidence.

- If the analysis is needed for a pre-trial date, the lab needs to be notified of this date as soon as possible.
- Please limit rush case(s) to 1 item of evidence for each charge whenever possible. The Chemistry Section would like a lead time of two weeks on rush cases.
- We ask that you contact the laboratory as soon as possible if analysis is no longer required for a case. Working cases that have already been litigated wastes time and money and delays the analysis of other cases.

3.3 Submission Limits, Weights, and Sampling

- The KBI laboratories have limited space for holding large amounts of drug evidence. The laboratory must be contacted at least one day prior to submitting a large amount of evidence for special arrangements to be made. The following amounts are considered large:
 - A single item weighing more than 25 pounds
 - A total weight of all submitted evidence of more than 50 pounds
 - A single item larger than an airline carry-on bag, i.e. a bag with the following dimensions or larger: 24" x 16" x 10" or a total length + width + height of 50".
- Generally the laboratory will work to the highest statutory weight limit for each type of drug submitted.
- If the drug does not have a statutory weight limit, or the weight of the drug does not reach the lowest statutory weight, only one unit will be tested.
- In some cases the Chemistry Section may utilize a scientific sampling plan known as hypergeometric sampling. This plan is based on a mathematical formula which ensures uniformity in the sampling process and meets the KBI Laboratory accreditation standards.

State of Kansas severity level (SL) thresholds for distribution and manufacture pursuant to KSA 21-57 are as follows:

* Please follow the link to access the most current sentencing guidelines: http://www.sentencing.ks.gov/

Methamphetamine or Heroin	Marijuana Violations
SL 4: Less than 1 gram	SL 4: Less than 25 grams
SL 3: At least 1 gram but less than 3.5	SL 3: At least 25 grams but less than
grams	450 grams
SL 2: At least 3.5 grams but less than	SL 2: At least 450 grams but less than
100 grams	30 kilograms
SL 1: 100 grams or more	SL 1: 30 kilograms or more
Other Controlled Substances	Marijuana Cultivation (plant count)
SL 4: Less than 3.5 grams	SL 3: More than 4 but fewer than 50
SL 3: At least 3.5 grams but less than	SL 2: More than 50 but less than 100
100 grams	SL 1: More than 100

-	
SL 2: At least 100 grams but less than 1	
kilogram	
, -	
SL 1: 1 kilogram or more	

3.4 Plant Material

- **DO NOT** submit wet plant material to the laboratory. Wet plant material will mold which results in a health hazard and loss of the substance of interest.
- Seal recently dried plant material in paper bags.
- Submit a sample (approximately 1 gram) from a large plant instead of the entire plant.
- Package and seal each plant, or plant sample, separately. Do not submit only the
 roots of a plant; the roots do not contain any statutory controlled substance. If
 you have only the stem and root portion of a plant it will not be counted as a plant
 and will at best be considered a residue. Remove any soil from the plant prior to
 packaging; the soil contains bacteria that will degrade the plant.
- Please contact the laboratory in your service area for guidance to determine the number of plant samples needed for submission.

3.5 Syringes/Liquids

- NOTE: Syringes with needles WILL NOT be accepted unless prior approval by the Chemistry or Evidence Supervisor. There are two options available:
 - If the syringe contains liquid, that liquid can be placed in a sealed glass vial and the liquid may be submitted to the laboratory.
 - The needle is removed and the remaining parts of the syringe are submitted. The needle must be pulled completely from the syringe so no exposed metal from the needle remains and must state on the ECR that the needle has been removed.

DO NOT package liquids in metal cans, pill bottles, or plastic bags. Use a container appropriate for liquids (e.g., screw-top vials or specimen jars). Please contact the laboratory in your service area for guidance.

3.6 Pharmaceuticals and Clandestinely Manufactured Tablets

- Non-controlled pharmaceuticals should not be submitted to the laboratory.
- If an item contains tablets or capsules that do not have a pharmaceutical logo identifier and are visually consistent (same color, shape, and size), a representative sample of the tablets or capsules may be examined and reported on.

3.7 Residues/Drug Paraphernalia

- If weighable material is present in other items, paraphernalia and/or residues do not need to be submitted.
- If there is no weighable material, only one residue item per substance type will be analyzed (e.g., one plant residue and one powder residue).
- If a residue or paraphernalia item meets the guidelines for submission, DO NOT FIELD TEST THE RESIDUE. Submit to the laboratory for testing.
- **DO NOT** use the general phrase "various or miscellaneous paraphernalia". Clearly describe the item(s) on the ECR.
- Remove any water from "bongs" or smoking devices prior to submitting. Do not submit the water removed from an item.
- When possible submit only the removable bowl portion of large smoking devices.
- **DO NOT** submit ashtrays.
- **DO NOT** submit currency for analysis unless there is visible residue or weighable substance.
- Only submit the evidence to be analyzed and hold other miscellaneous items such as lighters or boxes of rolling papers. Example: If you find vegetation on a plate, submit the vegetation and hold the plate, etc.

3.8 Clandestine Methamphetamine Manufacturing Chemicals

- Place ample samples of liquids in leak proof containers. Fill vials 2/3 full.
- DO NOT seal bottles. Place closed bottles in bags and seal the bags.
- **DO NOT** submit lithium strips. Lithium is a fire hazard and will not be accepted by the KBI Laboratory.
- Clearly state on the ECR where the sample originated, do not submit an ECR that reads
- "Item 1A sample from Item 1," without describing Item 1.

3.9 Hazardous Materials

Potentially hazardous materials, such as LSD, fentanyl compound, and other potent designer drugs are dangerous or even fatal in small quantities. These types of chemicals will require special handling procedures as well as additional personal protective equipment, packaging, and labeling to prevent exposure.

Many of the hazardous materials have a similar appearance to other commonly encountered substances like cocaine, methamphetamine, and other controlled substances that are found in powder form and cannot be identified by appearance alone. These hazardous materials may also be incorporated in with other commonly encountered substances.

To prevent or reduce the possibility of exposure, field testing and sampling is NOT recommended on these substances. If field testing must be done, the recommended personal protective equipment must be worn while conducting the field test.

Recommended personal protective equipment for any suspect hazardous substance (always follow departmental policies/procedures):

- Goggles/Safety Glasses
- N95 Particulate Dust Mask
- 2 pairs of Gloves
- Long sleeves, Lab Coat or Tyvek Suit
- Optional: Full Face Respirator and Tychem suit for a higher level of protection Required packaging and labeling:
 - At a minimum double bagging is required. Plastic bag or other plastic type material for the outer most packaging is recommended. Ensure both inner and outer package are sealed.
 - All products containing suspected fentanyl should be clearly marked to ensure safe handling. The KBI Evidence Control Centers will mark the packaging with an appropriate warning label when received at the laboratory.

3.10 Federal Cases/Quantitation

- The name and contact information of the federal prosecutor needs to accompany
 the request for analysis. Federal prosecution/sentencing guidelines are
 dependent on the amount of controlled substances present. The examiner will
 work with the prosecutor to determine what will be analyzed.
- Quantitations (quants) will only be performed on federal cases.

3.11 Alcoholic Beverage

- **DO NOT** submit open containers of liquids, if those containers cannot be sealed in a leak-proof manner. Place samples of liquids from open containers in leak proof containers. The preferred container is a 1 ounce glass bottle with Teflon lined screw cap, secured against breakage/leakage during transport.
- If original containers are not submitted, include a description of the container from which the sample originated (for example: "Sample from 3.2 Bud Light can").
- Containers with intact factory seals may be submitted.
- Original containers with screw on lids that do not leak may be submitted.

4 <u>Submission Guidelines for Firearm and Toolmark</u> Evidence

4.1 Scope of Analysis Performed

The KBI Firearm and Toolmark section examines firearms and ammunition components, tools and toolmarked items, firearms with obliterated serial numbers, fractured items, and articles of clothing exhibiting gunshot patterns for a muzzle-to-garment distance determination analysis.

4.2 Examinations Not Performed

Examinations of photographs of suspected firearms or ammunition components

4.3 Packaging Guidelines

4.3.1 Firearms and Ammunition Components:

- Firearms must be submitted unloaded
- No loose ammunition should be packaged with a firearm
- Firearms should be packaged with the actions open (zip-ties through the action typically suffice).
- Magazines submitted should not be inserted into the firearm.
- Firearms recovered in water should be brought to the KBI Forensic Science Laboratory while still submerged in the water, to prevent excessive rust. A firearms examiner will properly drain, dry and treat the firearm with rust preventative during submission.
- Projectiles removed during autopsy or surgery should be rinsed with water and dried prior to packaging, to prevent corrosion.

4.3.2 Clothing Items for Muzzle-to-Garment Distance Determination:

 Clothing items exhibiting gunshot residues should be laid flat to dry. Once dry, package flat and seal between pieces of cardboard to provide rigidity and protection.

4.3.3 Items Requesting Physical Fit/ Fracture Match Analysis:

 Items should be packaged such that they are protected from damage and are not contacting each other. (See also Submission Guidelines for Materials/Trace Evidence)

5 <u>Submission Guidelines for Latent Print Evidence</u>

5.1 Scope of Analysis Performed

The KBI Latent Print Section examines evidence for the presence of latent prints for all types of criminal cases from misdemeanors to felonies. Items of evidence that have surfaces suitable for the deposition, recovery and development of impression evidence is accepted. Scientists analyze and compare latent prints of sufficient quality to known prints on file in the KBI Repository, to known cards submitted as evidence, and/or to individuals obtained through an Automated Fingerprint Identification System (AFIS), the FBI Next Generation Identification (NGI), and/or the Missouri State Highway Patrol Automated Fingerprint Identification System (MSHPAFIS).

5.2 General Submission Guidelines

- Items should be packaged in a manner to protect the latent print evidence from obliteration or damage but allow the examiner to successfully repackage the evidence.
- A note providing the processing technique utilized on an item of evidence must be present on the ECR or the packaging of the specific item when chemical processing has been performed prior to submission.
- To request a comparison to a certain individual, the name and the date of birth of the individual(s), at a minimum, must be provided.
- Multiple latent lift cards may be packaged in the same container since obliteration of the latent prints is not a concern.
 - o Prints left inadvertently on a lift by a collector should be marked out with an "x".
- Exam quality photographs of latent prints taken by the customer will be accepted for examination. (Photographs must have a scale.)
 - Only submit images that need a latent print examination or indicate which image names/numbers need examined.
 - When submitting both the image and the associated item, a link between the image and the item must be provided. For example, the image contains a marker that links the image and the area on the item, or a specific note in the comments of the ECR.

6 <u>Submission Guidelines for Footwear and Tire Track</u> Evidence

This service is currently not provided by the Kansas Bureau of Investigation Forensic Science Center at this time. Several options exist for obtaining footwear or tire track comparison examinations. These options include:

- Federal Bureau of Investigation (FBI) Forensic Laboratory (Questioned Documents Section)
- A Fee for service forensic science laboratory
- An independent footwear and / or tire track examiner

We will be happy to assist you by providing additional contact information for laboratories that offer this type of service. Please contact the Footwear and Tire Track Supervisor at 785-296-2301 for more information.

Note: Should you need a database search of a question impression to potentially determine a make or model of a questioned impression please contact the Footwear and Tire Track Supervisor at 785-296-2301 for more information

7 <u>Submission Guidelines for Toxicology Evidence</u>

7.1 Scope of Analysis Performed

The KBI Toxicology Section provides Kansas law enforcement agencies and medical examiners with testing of human biological materials for the presence of a wide variety of volatile and drug compounds.

7.2 General Submission Guidelines

KBI Blood Alcohol Kits are available upon request. Please call 785-296-1040/1042 to order kits or fill out the form online through the KBI website. Follow the instructions provided in the kit. The KBI Forensic Science Laboratory does not provide urine collection kits.

- Be sure all tubes containing additives are well mixed before packaging.
- Write the subjects name on the blood tube/ specimen container and put all other pertinent information on the ECR.
- Postmortem samples should be labeled with type (e.g. blood, bile, urine, liver) and location of sample collection (e.g. iliac, heart, subclavian).
- Package all specimen containers in a manner that will prevent leakage or spills. Use zip lock type plastic bags; heat seal pouches or other sealable, leak resistant packaging.
- Pack specimens securely in a protective container such as a cardboard box.
- Place the ECR outside or separate from the sealed inner package that contains evidence (e.g. a blood tube).
- Seal all specimen containers and each layer of packaging with tamper indicating tape, and write your initials and date on each seal.
- All containers with evidence which may pose a biohazard threat should be clearly labeled as such.
- It is understood that refrigeration is not possible while specimens are in transit or in the mail. Whenever possible, refrigeration is preferred prior to submission

8 Submission Guidelines for Digital Evidence

8.1 Scope of Analysis Performed

The KBI Digital Evidence Section provides examination and analysis of electronic information stored on a wide variety of computer, mobile, and digital-storage devices, including:

- Computer Systems, such as desktops, laptops, digital video/audio recorders, and gaming systems
- Mobile Devices, such as cellular telephones, tablets, GPS, and portable gaming devices
- Removable Media, such as USB drives (flash drive), CDs, DVD's, SD cards, external hard drives etc. Items are sometimes referred to as "peripherals."

8.2 General Submission Guidelines

- Examine digital device(s) for evidence such as fingerprints, blood, hair, tissue, etc. that may be relevant to the investigation. If other examinations are needed, please note on the ECR.
- When articles must be handled, which may contain latent fingerprints, biological, or trace evidence, handle sparingly to limit altering the possible evidence and wear proper protective equipment to prevent contamination, if necessary.
- **Legal authority** Search Warrants and/or written Consent to Search are required and must include appropriate language that specifically allows the forensic examination of the digital evidence submitted.
 - Search Warrants must be signed by a District Court Judge.
 - Search Warrants should contain language that states a digital examination can take months to complete because of the amount of data to be analyzed and the possibility of encryption.
 - Search Warrants must be executed and open for the duration of the examination.
 - Legal Authority MUST BE submitted with the item to be examined.
- Requested Examination The <u>Digital Evidence Submission form</u> **MUST BE** included, providing detailed, case specific information and examination information. Forms can be found online through the KBI website.
 - Due to the potential mass of information involved in digital evidence, providing specific information is critical for timely examination.
 - Specific requests may include, for example, a specific time frame/date range, email addresses, call logs from identified phone numbers, photographs, communication using specific applications, internet history, etc.
 - If known victims, please provide images of victim for comparison. This
 is very important in child exploitation cases.
- Digital evidence is fragile and can be altered, damaged, or destroyed by improper handling, packaging, and transportation. For these reasons, special precautions should be taken to preserve this type of evidence.
- Documentation of digital evidence:

- The location and condition of the digital evidence and related evidence should be documented before recovering and securing.
- Documentation should describe how items were connected. Take photographs if possible.

8.3 Computer Systems

Secure digital evidence in accordance with departmental policy.

- In general:
 - Seize the items in a manner that protects and preserves the evidence.
 - Original packaging, if available, should be used. Similar packaging, such as boxes with foam padding or paper to prevent shifting is recommended.
 - o Document or label how cords and cables are attached, if necessary.
- o Gather any disks or CDs, external hard drives, or other relevant items.
- Seize any additional computer related materials working outward from the computer, including printouts, sticky notes, notebooks, manuals, trash, and any other materials that might contain passwords and other evidence (as identified in the search warrant).
- Obtain passwords, if possible. Passwords may be written down and stored near computers or in accompanying manuals or software information.

8.4 Mobile Devices

Secure digital evidence in accordance with departmental policy.

- In general:
 - For locked devices that are ON:
 - DO NOT TURN IT OFF
 - Establish network isolation. Methods for isolation include enabling "Airplane Mode" or placing device in radio frequency (RF) shielded packaging ("Faraday" bags, aluminum foil, arson cans).
 - Verify Wi-Fi and Bluetooth are disabled.
 - Keep the device powered, connect to a portable battery charger or USB power bank.
 - Transport to the Topeka KBI Evidence Control Center as soon as possible.
 - Notify the Evidence Control Specialists at the time of submission that the item is on and whether it is an iOS device.
 - For devices that are OFF (and possibly locked):
 - Transport to the Topeka KBI Evidence Control Center as soon as possible.
 - If an iOS device, preferably received within 7 days of the most recent powering event.
 - Notify the Evidence Control Specialists at the time of submission if the item is an iOS device.
 - Collect phone related software, manuals, and chargers.

- Do not scroll or browse through an evidentiary device, this may alter the integrity of the data
- If any manipulations are made, document any actions that were done on the device.
- Place device in appropriate packaging.
- Obtain passwords, pin numbers, or screen pattern lock code, if possible.
 Passwords may be written down and stored in original device packaging or in accompanying manuals or software information.
- If requesting JTAG or Chip-Off forensics on the phone, there is a high probability that the phone will be destroyed.

8.5 Removable Media

When seizing computer systems and/or mobile devices, look for "peripherals" such as, cables, chargers, flash or thumb drives, external hard drives, and SD/microSD cards.

• Place items in protective sleeves or envelopes to prevent damage.

9 <u>Submission Guidelines for Materials/Trace Evidence</u>

9.1 Scope of Analysis Performed

The KBI Trace Section conducts examination of evidence in the areas of primer gunshot residue (P-GSR), fire debris, physical fit and elemental analysis, and will be providing additional trace disciplines in the future.

9.2 P-GSR

Primer gunshot residue (P-GSR), also known as primer residue, is the term applied to the microscopic particles of metal and metal compounds that are emitted by a firearm at the time of discharge. These particles are derived from the primer composition and are NOT the residue of partially burned gunpowder grains. P-GSR particles may be deposited on any surface near the firearm at the time of discharge, including the hands, face, and clothing of the shooter and any bystanders in proximity to the gun. The KBI Trace Section provides P-GSR collection kits and training on proper collection techniques. Please call and ask for the Trace Section 785-296-1137 to order kits or fill out the online form through the KBI website.

NOTE: In control test firings, it has been shown that the concentration of primer gunshot residue (P-GSR) significantly declines on living subjects due to normal activities. In view of these findings, if a significant amount of time (approximately 8 hours) has passed since the shooting, it is recommended that you check with the KBI Trace Section before submitting samples for analysis. This does not apply to deceased subjects. For all other items not listed in the kit, you must contact the laboratory prior to submitting the P-GSR kit (see instructions provided with the kit).

9.2.1 General P-GSR Guidelines:

- If the subject is deceased, collect P-GSR samples prior to processing the body. If the body has been processed, check with the KBI Trace Section before proceeding.
- Heavily soiled or bloody areas should be avoided during collection, if possible.
- DO NOT collect P-GSR samples if the subject has already been fingerprinted.
 The inking process removes the primer gunshot residue particles from the skin.
- DO NOT collect P-GSR samples if it is known the subject has washed his/her hands and face since the time of the shooting.
- **DO NOT** use this kit to submit fired cartridge cases to the laboratory.
- Fill out all the information on the Primer Gunshot Residue Analysis Information Form included in the kit.

9.2.2 General Collection Guidelines:

- Allow the kit to reach room temperature before using.
- Put on the disposable gloves that are provided in the kit. DO NOT substitute
 with other gloves. Gloves provided in the kits are approved barrier gloves to

- protect you from blood borne pathogens if there is blood on the subject's hands or clothing.
- When the cap is removed from the clear plastic vial containing the sample platforms (or "stubs"), the adhesive collecting surface is exposed and care must be used to not drop the stub or contaminate the collection surface by allowing the surface to come into contact with an object other than the area that is to be sampled.
- DO NOT touch or contaminate the inside of the plastic vial.
- When pressing (in an up-and-down motion) the collecting surface of the stubs on the subject's skin, use enough pressure to cause a mild indentation on the surface of the subject's skin. Continue sampling the area of interest until the adhesive loses its potency.
- Right Hand:
 - Carefully remove the cap from the vial labeled RIGHT HAND.
 - While holding the vial cap, press the collecting surface of the stub onto the back of the subject's right hand until the area has been covered.
 - Next, press the collecting surface of the stub onto the palm of the subject's right hand until the area has been covered.
 - After sampling the subject's right hand (both back and palm), return cap to the RIGHT HAND vial.
 - o Fill out all information requested on the vial label.

Left Hand:

- For collection from the left hand, repeat the procedures for RIGHT HAND using the vial labeled LEFT HAND.
- After sampling the subject's left hand (both back and palm), return cap to the LEFT HAND vial.
- o Fill out all information requested on the vial label.

Face:

- Remove the cap from the vial labeled FACE and press the collecting surface of the stub onto the subject's face until the areas have been covered.
- Collect from the areas outlined in the instructions printed on the P-GSR kit envelope.
- NOTE: **DO NOT** collect from cheeks or chin if the subject has facial hair.
- After sampling the subject's face, return cap to the FACE vial.
- Fill out all information requested on the vial label.

9.2.3 General Submission Guidelines for P-GSR Kits

- Fill out all information requested on the front of the kit envelope.
- Return the completed Primer Gunshot Residue Analysis Information to the kit envelope.
- Return all used vials to the kit envelope. If the kit contains a Control Stub, DO NOT open this vial. However, fill out all information requested on the vial and return the Control Stub to the kit envelope.
- Close the envelope flap and properly seal with evidence tape.

- Properly dispose of the gloves and DO NOT submit them with or in the kit.
- The sealed kit along with a completed ECR may be hand delivered or sent by mail as directed below:

9.2.4 General Submission Guidelines for Clothing and Other Objects

- Package individual items of clothing in separate containers.
- **DO NOT** package evidence collected from one individual with evidence collected from a second individual.
- Only clothing that has already been associated with the suspect and/or victim and the incident will be analyzed.
- For further questions, contact the KBI Trace Section.
- NOTE: If sent by mail, package the sealed kit in an appropriate container to prevent damage in transit. DO NOT forget to send the ECR along with the kit.
 DO NOT enclose the ECR inside the kit.

9.3 Fire Debris

The collection, preservation, and timely transmittal of fire debris evidence are important steps in the investigation of possible arson fires.

Place fire debris evidence in sealed containers that provide a physical barrier that
is impermeable to vapors (e.g. metal cans, plastic fire debris bags, glass canning
jars). Metal cans should be unused, lined metal paint cans with tight friction lids.
Lined cans are preferred because unlined cans may rust through in a matter of
weeks. Nylon bags manufactured for arson evidence may also be used. When
using nylon bags a heat-sealed control bag should be submitted.

*Note: The typical plastic (polyethylene) bags used for other types of evidence collection do not adequately retain vapors.

- DO NOT package liquids in metal cans or plastic bags. Use a container appropriate for liquids.
- Liquid samples should be placed in glass bottles (one ounce maximum) with Teflon-lined screw caps and secured against breakage/leakage during transport.
 DO NOT overfill the evidence container (no more than 2/3 full is best).
- **DO NOT** submit leaking or wet containers. If you can smell a petroleum product the evidence is not properly packaged.
- **DO NOT** submit large quantities of ignitable liquids (maximum one ounce).
- DO NOT submit more than one case per package.
- Consider submitting an empty container exemplar.
- Refrigerate/freeze soil samples to prevent bacterial degradation of sample.
- **DO NOT** include gloves.
- Submit comparison (control) samples when possible.
- Containers requiring latent print examination should have the liquids removed before submission.
- Please contact the laboratory in your service area for guidance or guestions.

9.4 Elemental Analysis

Evidence can be analyzed to determine its elemental composition. Many of the objects used in the commission of a crime (knives, ice picks, prying instruments, etc.) are composed of metal.

9.4.1 General Submission Guidelines:

- Collect filings and un-embedded fragments caused by sawing, drilling, or filing by carefully lifting or scraping into a plastic bag (make sure filings are dry before packaging).
- Use a nonmetallic device to transfer the filings or fragments to the collection bag.
- Tape seal the plastic bags before packaging into an appropriate sized container prior to submission.
- Package large items or items containing embedded fragments in a manner that provides a physical barrier, prevents the loss of evidence, and maintains the integrity of the evidence.
- When available, collect a comparison standard.
- DO NOT package known reference samples in the same packaging as questioned samples.

9.5 Items Requiring Physical Fit/Fracture Match Analysis

9.5.1 General Submission Guidelines:

• Items should be packaged such that they are protected from damage and are not contacting each other.

10 <u>Submission Guidelines for Bloodstain Pattern</u> Analysis

10.1 Scope of Analysis Performed

Bloodstain pattern analysis is the analysis of the size, shape, distribution, appearance, and location of bloodstains and bloodstain patterns as a means of determining the event(s) or mechanism(s) that created them. Violent crimes can result in bloodshed. When liquid blood is acted upon by physical forces, bloodstains and bloodstain patterns may be deposited on various surfaces, including the clothing of the individuals present at the crime scene. The bloodstain patterns can yield valuable information concerning the events which lead to their creation when examined by a qualified analyst. The information gained can then be used for the reconstruction of the incident and the evaluation of the statements of the witnesses and the crime participants.

A bloodstain pattern analyst can examine the crime scene, the crime scene photographs, evidence collected from the crime scene, the clothing of the suspect/ victim, the autopsy and/or medical reports, and the statements made by victims, suspects, or witnesses to possibly provide answers to the following potential questions:

- What events took place and in what order did these events occur?
- What was the position and location of an individual when struck/shot?
- What is the manner of death?
- Can statements by parties of interest be evaluated by bloodstain pattern analysis?
- Is there evidence of self-defense?
- Which bloodstains may be from a bleeding suspect?
- What is the significance of bloodstains on the suspect's clothing or person?

10.2 General Submission Guidelines

- Documentation of the crime scene through digital photographs, diagrams, sketches, and/or notes will be accepted for examination and analysis.
 - Photographs should include overall, midrange, and close-up photos with and without scales.
- Items of evidence such as objects or clothing may be submitted for analysis.
 - Items should be dried and packaged individually to prevent cross contamination.
 - When submitting clothing, identify the wearer/owner of the clothing.
- Please submit/provide all pertinent associated reports for review. (i.e. officer's reports, EMT reports, autopsy reports, injury reports, and witness statements).
- Autopsy photos should be submitted.
- Please note any relevant information in your investigation or why bloodstain pattern analysis is requested.
- Please note that the Bloodstain Pattern Analysis report is generally the final report written in the investigation due to the requirement of other reports (i.e. DNA) being done prior to the final report.

11 <u>Submission Guidelines for Biology</u>

11.1 General Submission Guidelines

This information is a brief summary of the submission guidelines. Additional information is located in the sections following.

- A DNA submission form should be filled out and submitted with the ECR. Both forms can be found online through the KBI website.
- A pre-submission of evidence conference with the laboratory is strongly encouraged to assure acceptance and completeness of your evidence submission.
- A case synopsis must be provided with the submitted evidence. Case officer contact information is also required. See "Case Synopsis" below.
- The number of evidence items accepted by the laboratory will be limited depending on the nature and/or type of the case submitted. See the sections on Item Selection, including Initial Submissions and Subsequent Submissions, below.
- Appropriate known reference standards must be available and submitted. See Reference Standards below.
- Typically, DNA testing will be considered complete when associations have been made in the case. This means that not all items submitted to the Biology Section will necessarily have DNA testing performed on them.
- Simple misdemeanor cases need approval for Biology examinations.
- The submitting agency or prosecuting attorney's office should notify the KBI Forensic Science Laboratory if and when they become aware that a case has been disposed and no longer needs to be worked by our laboratory.
- The number of evidence items accepted by the laboratory will be limited depending on the nature and/or type of the case submitted. Additional items may be accepted at the time of the initial submission after consultation between the investigator, the DNA scientist and the Biology Casework Supervisor, the Lab Director, the Assistant Lab Directors, or the DNA Technical Leader. Consultation can be in person or via conference call. The prosecutor may also be involved at this time depending upon the case.
- Assistance can be provided on identifying the most probative items for submission. (See the section on Item Selection below.)

11.2 Case Synopsis

Each biology case is required to have a case synopsis at the time of submission to the laboratory. The case synopsis should provide the necessary background information about the case, and connection of any DNA profile(s) obtained from the analysis to the crime. This information is required before any DNA profile obtained from crime scene evidence may be submitted to CODIS (Combined DNA Index System). CODIS is a database used to provide investigative leads based on DNA profiles developed from crime scenes across the country. There are strict state and federal guidelines regarding CODIS eligibility. The case synopsis will provide necessary documentation regarding CODIS eligibility.

- DNA profiles obtained from evidence not directly related to the crime scene *may not* be eligible.
- DNA profiles that are ambiguous regarding possible contributors (i.e. highly partial profiles, complex mixtures) are not eligible.
- Submission of known reference standards (suspect, victim, elimination) may be required to determine CODIS eligibility.
- Contact the KBI Forensic Science Laboratory for questions regarding CODIS eligibility.

11.3 Item Selection

Evidence which is submitted to the laboratory should be selected based on the probative (relevant) value of the item to the case. It is of great benefit to contact the laboratory to discuss pre-submission of evidence from homicide cases or complex cases with multiple pieces of evidence. Because of the complexities of homicide cases, the KBI Forensic Science Laboratory must fully understand the details associated with the case in order to provide the best possible service to our customers. This will ensure that everyone is properly briefed with the details, timelines and an agreement is reached regarding the most probative evidence.

- Probative evidence- Relevant and significant evidence items collected in a criminal case which can directly establish a connection between the victim and any suspect(s), place a suspect(s) at a crime scene, and support or refute statements.
- The most common probative evidence items are recovered weapons, clothing of the victim, samples collected during a sexual assault exam, clothing of the suspect, items in the suspect's possession which may have the victim's biological material present, and items left behind at a crime scene which could reasonably have the suspect's biological material present.

11.4 Initial Submissions (consultation not required)

The following number of items will be accepted without consultation.

A. Homicide/Attempted homicide/Aggravated Battery (typically one suspect and one victim)

- a. Up to ten (10) probative items
- b. Appropriate known reference standards
- B. Sexual Crimes (typically one suspect and one victim)
 - a. Sexual Assault Evidence Collection Kit and victim's clothing
 - b. One (1) additional probative item
 - c. Appropriate known reference standards

OR

- d. If there is not a Sexual Assault Evidence Collection Kit
 - i. Victim's clothing and two (2) probative items
 - ii. Appropriate known reference standards

- e. Bedding on Sexual Assaults Typically bedding does not yield probative DNA profiles. If bedding is needed, a complete "sexual" history of the bedding and approximate location of the incident along with consultation with the scientist will be required.
- C. All Other Crimes Against Persons (typically one suspect and one victim)
 - a. Up to three (3) probative items
 - b. Appropriate known reference standards
- D. Property Crimes (typically one residence/business)
 - a. Up to two (2) probative items
 - b. Appropriate known reference standards
- E. There will be instances when every item submitted will not be tested. If probative information is obtained, remaining items not yet tested will be returned to the submitting agency untested. Should the items need to be tested, the investigator should call the scientist directly to discuss the case situation.
- F. Appropriate known reference standards should be submitted with the evidence. A delay in the submission of reference standards may lead to a significant delay in testing. Some cases will not proceed to DNA testing without submission or reference standards. Known reference standards may be two (2) oral swabs, a purple top blood tube, or a blood card.
- G. If probative information is obtained from the initial submissions, no further submission will be accepted without approval of the Biology Casework Supervisor and/or the DNA Technical Leader. After completing initial testing, if additional analysis is indicated, the case scientist will consult with the Biology Section Supervisor and/or the DNA Technical Leader to evaluate the case status. The investigator will be contacted thereafter to discuss a possible second submission.

11.5 Second Submissions (Consultation is required)

A. Homicide, etc.

Generally, an additional ten (10) probative items

B. Sexual crimes

Generally, an additional three (3) probative items

- C. All Other Crimes Against Persons Generally, an additional three (3) probative items
- D. Property Crimes

Generally, an additional two (2) probative items

If no probative information is obtained from the first or second submissions, a conference including the scientist, investigator, prosecutor, and Biology Casework

Supervisor and /or DNA Technical Leader will be necessary before any further submissions of evidence.

11.6 Reference Standards (Known samples)

- A reference standard is a "known sample" collected from a specific individual, typically the victim or suspect. Names and other information provided needs to be accurate and precise (i.e. spelling, date of birth).
- A reference standard (known sample) can be a liquid blood sample collected in a purple top tube or oral (buccal) swabs.
- Reference standards from known suspects must be submitted if available. The name of the individual must be on the outer packaging and on the submission form.
- An elimination standard is a reference standard from an individual who is not related to the crime but has access to the crime scene (i.e. consensual sexual partners, car/home owners). Elimination standards are typically used to determine the CODIS entry eligibility of a DNA profile.
- Convicted offender/arrestee standards submitted for CODIS entry have no chain
 of custody; therefore, these standards cannot be used in casework comparison.
 Separate reference standards from suspects and/or victims must be submitted
 for direct comparison to evidence profiles.

11.7 Touch Evidence

- Touch evidence is defined as evidence which has no visible staining and would contain DNA that only results from touching an item with the skin. Touch evidence **DOES NOT** include cigarette butts, swabs from cans, bottles, straws or other items in which the substance being tested is most likely saliva.
- Touch evidence DOES NOT include items submitted for wear testing such as shirts, coats, hats, etc. where there is a probability of prolonged contact.
- Touch evidence may be accepted for possible STR DNA analysis when there is a high degree of likelihood that the evidence submitted will provide probative results or investigative leads. A high degree of likelihood may be established by means of witness corroboration, visual monitoring systems or sound deductive reasoning.
- Touch evidence collected from public places WILL NOT be accepted (e.g. swabs from door handles, counter tops, etc.).
- Touch evidence from drug baggies **WILL NOT** be accepted.
- Elimination DNA standards should be submitted with touch evidence where appropriate

11.8 Weapon Offenses

 Touch evidence from guns recovered in "felon in possession" cases require a known reference standard from the suspect(s) to be included at the initial evidence submission. DNA profiles obtained from felon in possession cases cannot be entered into CODIS making it necessary for the laboratory to have the reference standards before laboratory analysis can be conducted.

12 <u>Notice to KBI Forensic Science Laboratory Customers</u>

ISO/IEC 17025:2017 International accreditation standards and ANAB Accreditation Requirements require the laboratory to notify customers (law enforcement, attorneys, court personnel, etc.) of certain laboratory policies and procedures. This notice will serve as a general notification to customers for the following areas:

12.1 Review of Requests for Analysis

Each request for forensic science analysis is reviewed by laboratory personnel. The laboratory will review each request to ensure that the customer's needs are understood and that the laboratory can meet those needs. Once the laboratory accepts a request for analysis, the accepted request is considered a contract between the customer and the laboratory.

12.2 Changes to Contracts

The laboratory may select the item(s) most appropriate for analysis and/or elect to not analyze all items submitted based on the needs and circumstances of the case. The laboratory does not consider this a change to the contract, and this may be done without additional notice to the customer.

The laboratory strives to provide the highest quality and most valuable forensic analysis possible. For those reasons, if analysts conducting testing identify alternate and/or additional testing that may prove beneficial to our customers, the laboratory may notify the customer. This notification will always be done if the proposed analysis will require consumption of the evidence and/or limit future examinations.

12.3 Subcontracting Analysis

In limited circumstances, if the laboratory cannot provide the requested or necessary testing, a subcontracted facility may be used. The customer will receive notification by the laboratory prior to releasing any items to a subcontractor.

12.4 Selection of Methods

The laboratory utilizes analytical methods that are generally accepted in the forensic science community and that have been validated by laboratory personnel and documented in written procedures. The laboratory will determine the most appropriate method(s) for analysis based on information and input provided by the customer.

12.5 Deviations from Analytical Procedures

The laboratory maintains a policy to allow for suggesting, evaluating, approving, and documenting deviation to policy and procedure, when necessary. These deviations are not routinely communicated on a case by case basis, but are documented according to laboratory policy and will be discussed with customers upon request.

12.6 Dissemination of Analytical Results

Confidentiality of customer information is extremely important to the laboratory. Unless otherwise directed by our customers, on a case specific basis, the policy of the laboratory will be that members of the customer's agency, members of other agencies

that are part of a multi-agency investigation and the staff of the local prosecutor's office(s) will be considered to be the authorized recipients of information provided to, or generated by, the laboratory for the case.

The analytical methods used, date of receipt, date(s) of testing, and the condition of items tested may or may not be listed in the examination report. In any case in which a report does not include this information the laboratory will provide the information upon request.

12.7 Disposition of Evidence

Evidence accepted by the laboratory shall be returned to the customer upon the completion of examinations or when it is determined there are no applicable examinations. If the circumstance or nature of evidence precludes any evidence item(s) from being returned, the customer shall be notified of the disposition of the evidence item(s).

12.8 Customer Acceptance of Terms

By submitting evidence to the KBI Forensic Science Laboratory the customer agrees to accept these terms.



Kansas Bureau of Investigation

Kirk D. Thompson

Director

Attorney General

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