

# DoD Drug Detection Quality Assurance Program

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AFIP, Forensic Toxicology

# DoD Drug Detection Quality Assurance Laboratory

Quality assurance oversight of the DoD drug testing program through:

- **Proficiency testing**
  - Open and Blind
- **Inspections**
  - Greystone, DoD
- **Certification**
  - Office of the Deputy Assistant Secretary of Defense for Counter Narcotics



# Laboratory: Inspection/certification

## Military Drug Testing Laboratories

FTDTL Ft Meade

FTDTL Tripler AMC

NDSL San Diego

NDSL Jacksonville

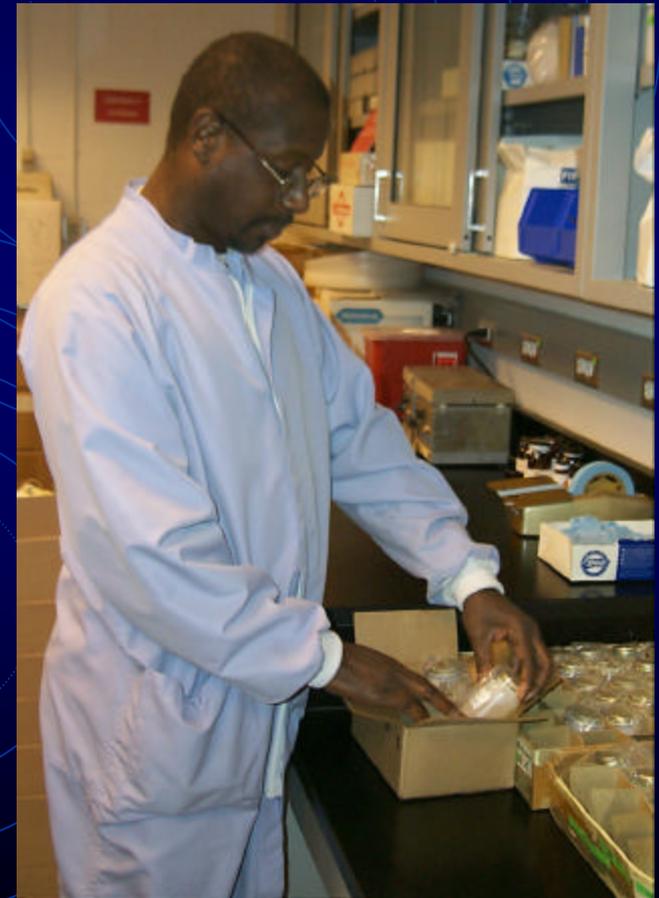
NDSL Great Lakes

FTL Brooks AFB

Laboratory of the Government  
Chemist (LGC): United Kingdom  
national laboratory

Administrative oversight of the  
independent QA inspection program

- Greystone Health Sciences



# Quality Assurance Program

**FY 2001: 22,000** proficiency samples sent

## Proficiency Testing

### Military Open and Blind Proficiency Program:

6 US military drug testing labs  
LGC - England

### Civilian Blind Proficiency Program:

7 Federal agencies participating



## Compounds Monitored

Amphetamine/Methamphetamine  
MDMA, MDA, MDEA  
Morphine/Codeine/6-acetylmorphine  
Barbiturates

Cocaine Metabolite (BZE)  
Cannabinoids  
Phencyclidine (PCP)  
LSD

Other Special Testing: Hemp products, Ketamine, GHB, Psilocin



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# Blind Proficiency Program

**Purpose:** To ensure accurate specimen screening, quantitation and reporting of all drugs tested for by the military forensic laboratories.

## **Process:**

- Urine used in the manufacture of proficiency samples is collected and certified negative by immunoassay screen and GC/MS analysis
- Drugs (or drug metabolites) are “spiked” into the urine to give required concentration (confirmed by GC/MS analysis)
- Specimen bottles are filled to 50 ml and labels attached containing an AFIP #.



# Blind Proficiency Program (Cont.)

- Specimen selection (negative or positive) for each Command is done by computer to give Neg>>THCCOOH>BZE>AMP.....
- Log sheets are generated matching the specimen AFIP number with an unused SS#
- 48 samples (4 boxes of 12) and logs are packed and shipped to submitting units
- Instructions included with each sample set direct the unit to:
  - Submit samples to the lab indicated at the top of the instruction
  - Submit each set of 12 during the designated time period (12 samples per week)
  - Process one sample at a time



# Blind Proficiency Program (Cont.)

- Match the AFIP # on the bottle with a SS# on the log sheet
- Remove the AFIP label from the specimen bottle and replace it with your units specimen label containing the corresponding SS#
- Complete the log sheet and DD form 2624
- Samples and DD2624 are to be submitted to the drug screening labs, AFIP samples should be intermixed with unit samples, or by themselves if your number of member samples are limited, mixed is best
- Send the completed log sheet back to AFIP
- Send analysis results of the QC samples back to AFIP
  - DD2624 or lab positive message



# Blind Proficiency Program (Cont.)

## Common Errors:

- Not sending the samples to the lab
  - non-submitted
- Sending samples to the wrong lab or back to AFIP
- Mixing of SS#
  - discrepancy investigation
- Using a SS# more than once
- Not removing the AFIP stickers
- Sending all 48 samples to the lab at once
- Not sending the log sheet and/or results back to AFIP
  - non-reported
- Not mixing the AFIP samples in with your regular member samples



# AFIP Log Sheet

## AFIP QUALITY CONTROL SAMPLE LOG SHEETS

TESTING LAB NAME: NDSL Jacksonville

SUBMITTING UNIT NAME: ABE-1 STRKFIGHTER SQD 106

DOD WEEK/MONTH (AFIP USE ONLY): 17 April 2002

ITEM 1	ITEM 2	ITEM 3	ITEM 4
AFIP QUALITY CONTROL SAMPLE #	AFIP FICTITIOUS SOCIAL SECURITY #	SUBMITTING UNIT SAMPLE ID #	DATE TO TEST LAB
5089	669-16-1508		
5090	354-06-0055		
5091	187-88-2166		
5092	134-96-4820		
5093	211-86-3968		
5094	281-15-4240		
5095	587-95-8841		
5096	065-98-6475		
5097	515-25-7468		
5098	577-41-1793		
5099	306-31-6208		
5100	048-11-7786		

SUBMIT THE ABOVE QC SAMPLES WITHIN THE FOLLOWING TIME FRAME  
01 APR THRU 05 APR 2002

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Please complete the information on reverse side of this sheet

## COMPLETE THE FOLLOWING AS INDICATED

U.S. AIR FORCE SUBMITTING UNITS:

BASE NUMBER \_\_\_\_\_

U.S. AIR ARMY SUBMITTING UNITS:

ADAPCP SERVICE CODE: \_\_\_\_\_

UNIT CODE: \_\_\_\_\_

U.S. NAVY AND MARINE SUBMITTING UNITS:

GEOGRAPHIC LOCATION OF UNIT AT TIME OF COLLECTION:  
\_\_\_\_\_

SUBMITTING UNIT MESSAGE SHORT TITLE and UIC:  
\_\_\_\_\_

ALL SUBMITTING UNITS:

DATE QC SAMPLES ARRIVED AT YOUR UNIT: \_\_\_\_\_

WERE QC SAMPLES KEPT REFRIGERATED PRIOR TO USE?: \_\_\_\_\_

AUTOVON PHONE NUMBER: \_\_\_\_\_

COMMERCIAL PHONE NUMBER: \_\_\_\_\_

PRINTED NAME AND RANK OF QC LIAISON: \_\_\_\_\_

SIGNATURE OF QC LIAISON: \_\_\_\_\_

DATE THIS QC SAMPLE LOG WAS COMPLETED: \_\_\_\_\_

RETURN THIS SAMPLE LOG UPON SUBMISSION OF QC SAMPLES  
USING ONE OF THE ADDRESS LABELS PROVIDED



Conclusions

Questions

Comments

