



METHAMPHETAMINE SAMPLING KITS **KIT CONTENTS, STORAGE, AND QUALITY CONTROL**

TECHNICAL NOTE

Background

It is important that sampling companies have confidence in the integrity of the kits they are using to collect samples. If they are accredited (or are seeking accreditation) they may need to provide information to their auditor about the source of their sampling kits, the kit contents, and why they have confidence that they are suitable for use.

This Technical Note provides information on the contents of Analytica's methamphetamine sampling kits, recommended storage of them, and quality controls used in their production.

Sampling Kits

The New Zealand Standard for Testing and Decontamination of Methamphetamine-Contaminated Properties (NZS 8510:2017) provides guidance on methamphetamine sampling. It refers to the NIOSH 9111 method for sampling and analysis, using materials recommended by the United States Environmental Protection Agency (USEPA 2009).

Analytica's sampling kits are made in accordance with the NZS 8510 standard, and Analytica is accredited under NZS ISO 17025 for NIOSH 9111.

We have single and multiple kit options. The following pages show the various kit options, their contents, and the specifications of items included in our kits:

Quality Control

Each batch of tubes prepared at Analytica is registered in our batch register identifying the date the batch was made, the type of kit, and details of the Technician making the batch. Every batch is quality control tested to ensure the kits are clear from any potential contamination.

1 in every 1000 kits from a batch is submitted for testing through the laboratory for quality control purposes. Every item in the kit is wiped using the wipe included in the kit, and the wipe is analysed as a live sample by the lab. This includes Discrete kits, Field Composite kits, and Field Blank kits. The results for each batch are assessed and approved before the kits are distributed to clients.

All test records for batch QC testing are stored in our database and can be supplied to clients on request. In the unlikely event that a batch is reported as contaminated, the batch will be withdrawn and we will implement our internal quality procedures to locate the source of and extent of contamination.

The kits supplied by Analytica are suitable for samplers to use for internal quality compliance checks such as Trip Blanks and Field Blanks. For more information on how to utilise these kits, please refer to our 'QC For Samplers – Field and Trip Blanks' Technical Note which can be found on our website or on request.



A Guide to Kit Storage:

Sample tubes are prepared on-site at Analytica. Each tube has a 'packed on' date label that is added to the outside of the tube when methanol is added to the 12 ply cotton wipe in the tube. The 'packed on' date label is dated with the day, month, and year a tube was prepared, and serves as a batch identifier. An example of this label is pictured below:



1 in every 1000 kits from a batch is used for quality control (see Quality Control section).

Customers can use the 'packed on' date and storage conditions of a kit to determine kit shelf-life. NIOSH 9111 recommends that wipes are moist at the time of use, without excess solvent being present that could cause sample loss due to dripping from the wipe. Analytica's sampling kits are manufactured with this in mind. **Regardless of the 'packed on' date of a kit, the user should assess the moisture of wipes as being satisfactory prior to use.**

As a guide, and based on the results of stability trials:

- kits stored in ambient temperature conditions will be viable for at least 65 days from the 'packed on' date which is marked on each tube.
- kits stored in a refrigerator (4-6°C) will be viable for at least 365 days from the 'packed on' date due to the slow rate of evaporation of methanol at low temperatures.

It is advisable to keep kits out of hot environments such as in direct sunlight as these conditions will promote evaporation of methanol from the wipes and could render the kits unuseable.

More information regarding the stability of the kits supplied by Analytica can be found in our 'Kit Stability' Technical Note which is available through our website or on request.

Following Pages

Please see following pages for details of:

- Discrete (Single Wipe) Sample Kit
- Field Composite (5 Wipe) Sample Kit
- Field Blank Kit

Discrete (Single Wipe) Sample Kit

# Items	Contents
1	Labserv Tube 50ml PP conical skirt base containing: <ul style="list-style-type: none"> • 1 x Cotton wipe (VetPro 12 Ply 7.5 x 7.5) • 3ml of Methanol (Thermo Fisher OPTIMA grade ACS HPLC/GC/IP/UV)
2	Nitrile Powder Free Examination Gloves Blue Size L (MUN-NTR28LL)
1	UHU tack approx. 10mm x 20mm
1	Template with 100cm ² inner frame (100mm x 100mm), external measurement 175mm x 140mm
1	Snaplock Bag 195mm x195mm (50micron)

Note: We also supply Discrete kits in packs of 5 and 10 where all contents are as listed above except larger 50 micron Snaplock bags are used and 5 or 10 times as many items are supplied.



Field Composite (5 Wipe) Sample Kit

# Items	Contents
1	Labserv 120ml polystyrene container with polyethylene screw cap containing: <ul style="list-style-type: none"> • 5 x Cotton wipes (VetPro 12 Ply 7.5 x 7.5) • 10ml of Methanol (Thermo Fisher OPTIMA grade ACS HPLC/GC/IP/UV)
1	Secondary Labserv 120ml polystyrene container with polyethylene screw cap
2	Nitrile Powder Free Examination Gloves Blue Size L (MUN-NTR28LL)
1	UHU tack approx. 10mm x 100mm
5	Template with 100cm ² inner frame (100mm x 100mm), external measurement 175mm x 140mm
1	Snaplock bag 195mm x195mm (50micron)
1	Plastic tweezers at a ratio of 1 per 50 kits



Field Blank Kits

# Items	Contents
1	Labserve Tube 50ml PP conical skirt base containing: <ul style="list-style-type: none"> • 1 x Cotton wipe (VetPro 12 Ply 7.5 x 7.5) • 3ml of Methanol (Thermo Fisher OPTIMA grade ACS HPLC/GC/IP/UV)
2	Nitrile Powder Free Examination Gloves Blue Size L (MUN-NTR28LL)
1	UHU tack approx. 10mm x 20mm
1	Template with 100cm ² inner frame (100mm x 100mm), external measurement 175mm x 140mm
1	Field Blank Template (200mm x 140mm)
1	Snaplock bag 255mm x 305mm (50micron)



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