Arcis DNA Sample Prep Kit

(Bulk Kit)

UFL002B	Arcis DNA Sample Prep 50 rxn

Instructions for use

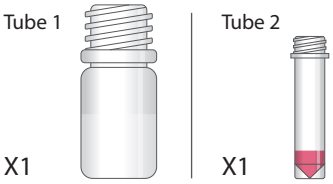
1. General Information (Bulk Kit)

Arcis DNA Sample Prep is a ready to use kit comprising two pre-filled tubes enabling pre-analytical processing of a variety of sample types including whole blood, saliva, bacteria, plant or animal cells or tissues.

In 3 minutes, with no prior sample preparation, the Arcis DNA Sample Prep kit allows you to go from cells to downstream nucleic acid investigations without the need for isolation or purification.

2. Materials Provided

Material Provided	Quantity	Number of Preps
Tube 1: Lysis Buffer	1 Tube	50
Tube 2: Wash buffer	1 Tube	



3. Storage Conditions

Tubes are shipped and stored at room temperature. The bulk kit format has been designed for high-throughput genomic applications. We advise that the buffers are not exposed to the environment for extended periods and/or continual short exposures, if this occurs then unused buffer not used within 48 hours after opening should be disposed of. If required the buffers can be pre-aliquoted and then stored for later use.

4. Applications

The product can be used on virtually any DNA containing sample. The nucleic acid released has been successfully applied to molecular biology techniques including PCR, sequencing and cloning.

The Arcis DNA Sample Prep Kit accelerates pre-analytical processing in the following targets:

- Human Samples: including whole blood (fr esh/frozen, with and without heparin or EDTA), plasma, urine and buccal swabs
- Micr obiological samples: including bacteria (E.coli, S.aureus, P.aeruginosa, K. pneumoniae), viruses (HBV/HCV) and parasites (plasmodium)

5. Applications

The Arcis DNA Sample Prep Kit is particularly suited to the following areas:

- Laboratory-fr ee situations including point of care and field-based diagnostics, near-patient testing, and integrated sample-processing workflows.
- For ensic Analysis
- Veterinary research
- Genomics and biomarker analysis

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Instructions for Use continued

6. Typical Protocol- Rapid processing of whole blood

Ensure samples have thawed completely before starting this procedure.

6.1. Add 30µl of whole blood to 150µl of Reagent 1 (or scale up for lar ger sample volume).

6.2. Incubate for one minute at r oom temperature.

6.3. Take 10µl of the above mixture and combine with 40µl of Reagent 2 (or scale up for larger sample volume).

6.4. Add appr opriate volume into PCR master mix (e.g. 5µl per 25µl reaction).

For applications where enhanced sensitivity is required, the following protocol modifications can be used:

Samples can be mixed with Reagent 1 at a 1:4 or 1:3 ratio to reduce sample dilution (See Table 1).

Samples that have been processed in step 6.1 can be added to Reagent 2 at 1:3, 1:2 or 1:1 ratio to reduce sample dilution (See Table 2).

Table 1: Processing samples in Reagent 1

Sample Volume (µl)	Reagent 1 Volume (µl)	Ratio
30	120	1:4
60	240	1:4
90	360	1:4
30	90	1:3
60	180	1:3
90	270	1:3

Table 2: Washing samples in Reagent 2

Extract from Tube 1 (µl)	Reagent 2 Volume (µl)	Ratio
10	30	1:3
10	20	1:2
10	10	1:1

This product is for laboratory research use only.
CAUTION: Not for diagnostic use.