10x Lysis Buffer

Catalogue Number	Preps (≥)	Pack Size
05-95-0000S	50	0.5 ml
05-95-00001	100	1 ml
05-95-00004	400	4 ml
05-95-00020	2000	20 ml

Store at -20 °C

Stability at room temperature
1 MONTH

Shipping:

At room temperature

Batch Number and Expiry Date:

See vial

Storage and Stability*:

- Routine storage at –20 °C (–28°C to –18°C) until expiry date.
- Can be stored at +4 °C (+2°C to +8°C) for up to 12 months.
- Stability at room temperature (+25 °C) for 1 month.
- Freeze-thaw stability: 10 cycles

Reaction setup:

At room temperature

Manufactured by Solis BioDyne, in compliance with the ISO 9001 and ISO 13485 certified Quality Management System.

Product description:

- 10x Lysis Buffer is a universal lysis buffer in 10x concentration that is designed for rapid DNA extraction from various sample materials such as seeds of different crops, leaves, etc.
- The extracted DNA is suitable for use with different PCR-based detection methods.
- The 10x Lysis Buffer is compatible to use with HOT SolisAcura™ Cassette-based Genotyping Mix (cat. no 38-12) for genotyping applications, and in other qPCR applications.
- The lysate can be stored for more than a month at -20 °C.

Step-by-step guidelines:

1. Dilute the 10x Lysis Buffer to a 1x concentration with PCR-grade water to produce the required volume of 1x Lysis Buffer, which is approximately 100 µl of 1x Lysis Buffer per sample.[1]

2. Prepare a piece of plant material of < 4 mm in diameter (for 100 µl of 1x Lysis Buffer) or break plant seeds to a size of 1-2 mm.

3. Add 50-150 µl of 1x Lysis Buffer to the tube or 96-well PCR plate containing the sample material prepared in step 2.[2]

4. Make sure the sample is submerged in the 1x Lysis Buffer and incubate the sample at 25 °C for 3 min using incubator or (q)PCR instrument.

5. Vortex the tube briefly and centrifuge for 1 min at 2000 rpm and place it on a cooler.

6. Transfer the lysate to a new tube or use directly.[3]

7. Use 2-10 µl of the lysate per 20 µl PCR reaction or up to 50% of reaction volume for high-throughput genotyping applications.

[1] See below in **Table 1** for recommended amounts per sample. 150 µl of 1x Lysis Buffer is recommended in case of high carbohydrate content.

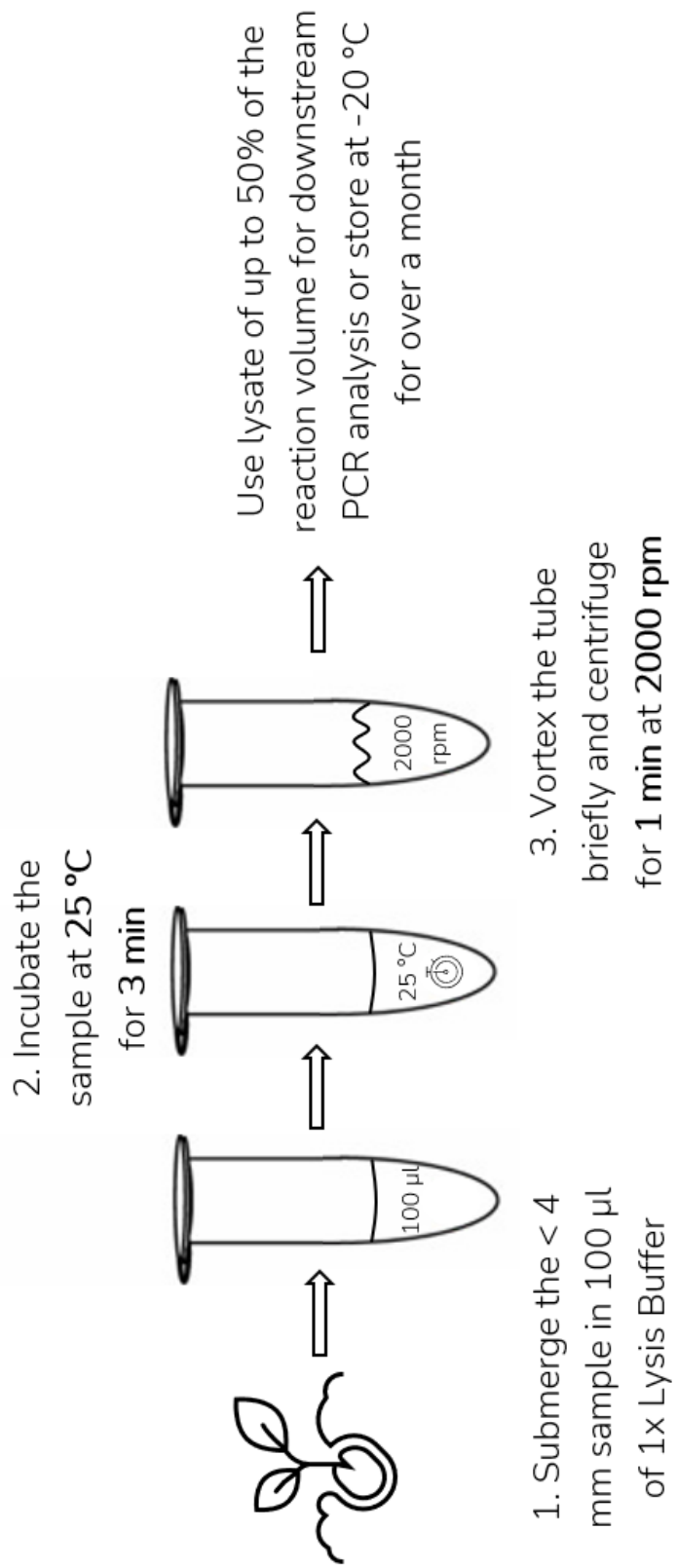
[2] It is highly recommended to optimize the lysis mix/sample ratio for optimal performance in PCR, as different sample materials (for instance fresh leaves/seeds) have different optimums.

[3] It is recommended to keep the lysate on ice or at 4 °C while assembling the reaction mix.

	Seed sample (1-2 mm in diameter)	Leaf sample (1-2 mm in diameter)	Leaf sample (2-4 mm in diameter)
Dry/lyophilized	100 µl	25 µl	50 µl
Fresh	100 µl	50 µl	100 µl

Table 1. Recommended amount of 1x Lysis Buffer per sample depending on the sample type and size. Final amount should be optimized for the exact setup of the experiment (50-150 µl for seeds and 25-100 µl for leaves).

Visual representation of the protocol:



Safety precautions:

Please refer to Safety Data Sheet for more information.

Technical support:

Contact your sales representative for any questions or send an email to support@solisbiodyne.com.

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***Product stability** is assessed using routine QC assays and QC criteria set forth in the product specification and are intended to provide guidelines for shipping and storage conditions only. The customer or its designee shall be responsible for conducting all necessary stability testing applicable to their assay and/or QC criteria, and to comply with any applicable regulatory requirements or guidelines. Such stability testing shall include testing to validate the lead times for shipment, the shelf life of, and the product specifications applicable to shipment, storage and handling of the assay assembled and packed by the customer.

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