

RUO**REF**

1171-000000-96

DESCRIPTION

ICE reagent is a patented technology* specifically designed to be used with ICE-enabled qPCR and dPCR assays with cfDNA extracted from liquid biopsy samples. ICE is an extraction-yield control for the validation of each assay and enables the normalization of measurements, supporting accurate longitudinal monitoring of cfDNA levels.

ICE reagent contains a synthetic non-human and non-GMO DNA fragment to spike in liquid biopsy specimens prior to extraction. It is an optional companion to ID Solutions products enabled for its detection. It is then co-amplified in a single well with the target of the assay of interest and detected on a specific channel.

Please contact info@id-solutions.fr for more information.

*ID SOLUTIONS patented technology, Pat. n°FR3061720 / WO2018/127674.

The performance of the test should be validated prior to use.

STORAGE AND STABILITY

Reagents are stable for up to 12 months when stored between -16°C and -26°C, protected from light.

CONTENTS

Each package contains 2 tubes of **ICE** (Ref. SF3051-1171-000000-48; white cap; 960µL per tube), sufficient for 48 reactions each.

REAGENT AND EQUIPMENT

Please refer to product information sheet of the product of interest.

REACTION SETUP

Thaw and let set to room temperature. Mix thoroughly by vortexing to ensure homogeneity. Centrifuge briefly to collect content at the bottom of the tube.

1. **Add 20 µL** of ICE in each liquid biopsy specimen.
2. **Proceed** with the extraction of cell-free DNA (cfDNA).
3. **Test** cfDNA samples as described in the product information sheet of the product of interest.
4. **Calculate** the **estimated** extraction yield for each tested sample by comparing the ICE concentration measured after extraction to that of a non-extracted ICE reference sample (see **TIPS**), using the following formula:

$$cfDNA \text{ yield (\%)} = \frac{[ICE \text{ extracted}]}{[ICE \text{ reference sample}]} \times 100$$

DATA ACQUISITION AND ANALYSIS

Follow instructions for data acquisition and analysis based on your platform user manual and the product information sheet of the detection assay of interest.

TIPS

To estimate the extraction yield, a reference sample representing 100% of the spiked ICE (i.e., the total input before extraction) should be prepared and analyzed in the same dPCR run as the test samples.

Example: In case cfDNA was eluted in 80 µL, the non-extracted ICE reference sample should be prepared by adding 20 µL of the stock reagent to 60 µL of the elution buffer (same buffer used for the cfDNA), to match the elution volume used for each sample.


ID SOLUTIONS

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SYMBOLS

	Contains sufficient for < n > tests		Manufacturer
	Batch code		Keep away from the sunlight
	Catalog number		Temperature limit
	Use-by date		Caution
	Positive control		Research Use Only
	Consult instructions for use or consult electronic instructions for use		

REVISION HISTORY

VERSION	CHANGES
MAN_1171-000000_EN_V1.0	Creation
MAN_1171-000000_EN_V1.1	Inclusion of the formula for estimating yield