

truSHEAR Buffer 11x

INTRODUCTION

truSHEAR Buffer 11x has been optimized for mechanical DNA or RNA shearing using Covaris Focused-ultrasonicators and microTUBEs. This buffer ensures high yield and reproducibility in shearing distribution when pure DNA or RNA is used as the shearing substrate. truSHEAR Buffer is fully compatible with downstream NGS applications.

REVISION HISTORY

Part Number	Revision	Date	Description of change
010400	A	May 2017	Initial Release

CONTENT

Name	Part Number	Description	Composition
truSHEAR Buffer 11x (550 µl)	520247	550 µl truSHEAR Buffer stock at 11X working concentration. For addition to NA, dilute in TE or low TE buffer.	0.11% Tween 20
truSHEAR Buffer 11x (5.5 ml)	520248	5.5 ml truSHEAR Buffer stock at 11X working concentration. For addition to NA, dilute in TE or low TE buffer.	0.11% Tween 20

STORAGE

truSHEAR Buffer should be stored at 2-8 °C.

WORKFLOW

1. Preparation

Add desired amount of truSHEAR Buffer to DNA preparation (see table below). We recommend the DNA is in TE or low TE buffer before adding truSHEAR Buffer.

Consumable	Total Shearing Volume	DNA Sample Volume	truSHEAR Buffer Volume
microTUBE-15	16.5 µl	15 µl	1.5 µl
microTUBE-50	55 µl	50 µl	5 µl
microTUBE-130	132 µl	120 µl	12 µl

Sample Preparation with truSHEAR Buffer

2. Mechanical NA Shearing with Covaris Focused-ultrasonicator

Follow settings provided in the truSHEAR Buffer DNA Shearing Quick Guide. The truSHEAR buffer may affect current settings used without truSHEAR buffer. Run a time course for optimal results. The latest revision is accessible online.

Quick Guide: truSHEAR Buffer http://covarisinc.com/wp-content/uploads/pn_010401.pdf