

## IMAC Buffer (pH 8.0)

(Cat# C8030; ready-to-use buffer; store at 4 °C)

### Introduction

Immobilized metal ion affinity chromatography (IMAC) is based on a high affinity binding of an immobilized metal ion by chelating a part of the target protein, IMAC is a widely used separation method. Performed on a preparative chromatographic medium, IMAC is a highly efficient procedure to purify histidine-tagged proteins from a cell extract in just one step.

ABS\_Bio™ ready-to-use IMAC Buffers are pre-mixed Phosphate Buffer (0.3 M NaCl & 0.05 M NaPi) and Elution Buffer (0.3 M Imidazole in phosphate buffer) solutions, pH 8.0 to purify histidine-tagged proteins from a cell extract. DNase-, RNase-, phosphatases and Protease-Free.

### Kit Components

IMAC Phosphate Buffer: 400 mL    IMAC Elution Buffer: 100 mL

**Storage and Handling:** Store all of the components at 4 °C. Shelf Life: 12 months after receipt.

### Features for All of Solution & Buffers

Formulated from analytical grade chemicals.

Ideal for standardizing laboratory work.

Ready to use in minutes.

Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.

### Applications

- Molecular Biology and Biochemistry applications
- Purification of histidine-tagged and non-histidine-tagged recombinant and native protein

### Protocol

The buffer is filtered with 0.22 µm filter in sterile condition and it is ready to use. No pH adjustment is required.

Mix Elution buffer with phosphate buffer to prepare desired final concentration of imidazole for elution, for example to prepare 6 mL 100 mM imidazole by add 2 mL Elution buffer into 4 mL Phosphate buffer.

### Related Products:

TMB substrate solution(#C8010)	ELISA Blocking Buffer(5x 25mL; #C8002)
ELISA Washing Buffer(20x, 25mL; #C8003)	Antibody Dilution Buffer(#C8004)
Protein Loading Buffer(6x ; #C8005)	SDS-PAGE Running Buffer(10x ; #C8006)
Phosphate Buffered Saline (10x PBS, #C8007)	Phosphate Buffered Saline with Tween 20(10x PBS-T; #C8008)
Phosphate Buffered Saline(1xDPBS, #C8012)	PAGE-gel transfer buffer(10x, #C8014)
TAE Buffer(10x, #C8015)	TBE Buffer(10x, #C8016)
RIPA Buffer(#C8017)	Cell Lysis Buffer(#C8019)
TE Buffer(#C8020)	DNA Loading Buffer(#C8021)
TBST Buffer(#C8024)	TBST Blocking Buffer(#C8025)
Tris-Buffer(1 M pH 7.5, #C8027)	Tris-Buffer(1 M pH 8.0, #C8026)
HEPES Buffer(1 M pH 7.4, #C8028)	