

mAb pH Gradient Buffer, LC Buffer

Cat. No. mAb pH Gradient Buffer-54 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	pH gradient buffer is an innovative elution buffer (or mobile phase) that changes pH linearly for separation and purification of mAb antibodies, glycoproteins and PTM modified proteins by ion exchange (IEX) chromatography. In pH gradient buffer-based IEX chromatography, the pH of the initial buffer is kept at a constant level to ensure that the charged proteins bind to oppositely charged ions of the stationary phase. Then, the protein is eluted by linearly changing the pH of the buffer so that the protein has a zero net charge and can elute from the column.
Description	Lyophilized powder
Form	Lyophilized powder, Each bottle contains 2.5 mg BT Surfactant, 850 mg NaCl, and 6 g sulfonate.
Purity	In ion mobility buffer, the BT Surfactant is mass spectrometry reagents, and other components are pure chromatography reagents with < 0.01 absorbance at 280 nm, analyzed by liquid chromatography.
Storage	In 4 centigrade refrigerator as lyophilized powder.
CAS No.	CAS of Buffer A: 1266615-59-1-1132-61-2 CAS of Buffer B: 2915-38-6-73463-39-5
Shelf life	24 months at 4 centigrade as powder; 7 days at 4 centigrade as solution.
Usage Notes	Reference Procedure for mAb subunit and intact protein: Column: SCX, 10 µm, 2.1 * 250 mm or 2.1 * 50 mm Flow rate: 0.3 mL/min Eluent A: 1× mAb pH buffer A (pH 5.5)

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Eluent B: 1× mAb pH Buffer B (pH 10.2) Gradient: 0-1 min, 0% B; 1-31 min, 0-100% B; 31-34 min, 100% B; 34-40 min, 0% B Temperature: 30 centigrade FLR detection: Ex: 280 nm, Em: 360 nm UV detection: 280 nm Load: 0.2-10 µg Inject volume: 4 µL

Resuspension Buffer

Dissolve reagents in 500 mL deionized, double-distilled water.

pH Range

pH Adjustment: At room temperature, use pH meter to ensure the pH error is less than 0.2, and use 2 M NaOH or hydrochloric acid to adjust the pH. Elution Buffer (mAb): pH Buffer A, pH 5.5 Elution Buffer B (mAb): pH Buffer B, pH 10.2 Linear pH Range: Linear correlation coefficient > 0.99 at pH 5.5 - 10.2 in columns of IEX chromatography. pH Accuracy: pH 5.5 for mAb pH Buffer A and pH 10.2 for mAb pH Buffer B with error less than 0.2. pH Elution Linearity: The linear correlation coefficient of 227 nm absorbance > 0.999 with zero volume injection and SCX ion exchange chromatography system in 30 min run time at 30 centigrade column temperature. pH Elution Degree of Separation: Linear elution degree of separation > 1 with 5 pKa protein mAb: IgG A1, Ribonuclease A, Ribonuclease B, and Cytochrome C.

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