

Anion Exchange Chromatography Columns

Features

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|----------------------------------|--|
| QA-825 DEAE-825 | <ul style="list-style-type: none"> Suitable for analyzing relatively high molecular weight compounds: proteins, peptides, DNA, and RNA Usable in a wide pH range from pH 2 to 12 QA-825 fulfills USP L23 requirements |
| ES-502N 7C | <ul style="list-style-type: none"> Compared to IEC series columns, polyvinyl alcohol is used as base material and this offers different separation pattern Low hydrophobic interaction of proteins allows analysis under mild conditions |
| WA-624 | <ul style="list-style-type: none"> Suitable for anion exchange analysis of low molecular weight compounds such as nucleotides |

● Standard columns

[Strong anion exchange resin] Functional Group: Quaternary ammonium

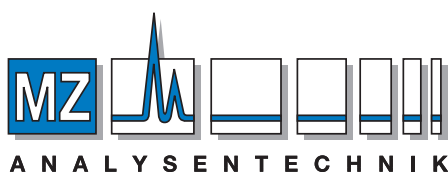
| Product Code | Product Name | Ion Exchange Capacity (meq/g) | Base Material | Particle Size (µm) | Pore Size (Å) | Column Size (mm) I.D. x Length | Shipping Solvent |
|--------------|-------------------|-------------------------------|-------------------------|--------------------|---------------|--------------------------------|---|
| F6110011 | IEC QA-825 | 0.45 | Polyhydroxymethacrylate | 12 | 5,000 | 8.0 x 75 | 50 mM Na ₂ SO ₄ aq. |

[Weak anion exchange resin] Functional Group: Diethylaminoethyl

| Product Code | Product Name | Ion Exchange Capacity (meq/g) | Base Material | Particle Size (µm) | Pore Size (Å) | Column Size (mm) I.D. x Length | Shipping Solvent |
|--------------|-------------------------------------|-------------------------------|-------------------------|--------------------|---------------|--------------------------------|---|
| F6118255 | IEC DEAE-825 | 0.6 | Polyhydroxymethacrylate | 8 | 5,000 | 8.0 x 75 | 50 mM Na ₂ SO ₄ aq. |
| F7640002 | Asahipak ES-502N 7C | 0.55 | Polyvinyl alcohol | 9 | 2,000 | 7.5 x 100 | 50 mM 1,3-Diaminopropane + 50 mM NaCl (pH10.0) |
| F6356240 | AXpak WA-624 | 1.2 | Polyhydroxymethacrylate | 10 | 2,000 | 6.0 x 150 | 0.1 M Sodium phosphate buffer (pH3.0)/CH ₃ CN =80/20 |
| F6700245 | AXpak WA-G (guard column) | – | Polyhydroxymethacrylate | 10 | – | 4.6 x 10 | 0.1 M Sodium phosphate buffer (pH3.0)/CH ₃ CN =80/20 |

● Preparative columns [Preparative columns are made to order.]

| Product Code | Product Name | Particle Size (µm) | Column Size (mm) I.D. x Length | Standard column |
|--------------|-----------------------------|--------------------|--------------------------------|-----------------|
| F6548000 | IEC QA-2025 | 20 | 20.0 x 150 | QA-825 |
| F6709602 | IEC QA-G 8B | 20 | 8.0 x 50 | (guard column) |
| F6548001 | IEC DEAE-2025 | 20 | 20.0 x 150 | DEAE-825 |
| F6709603 | IEC DEAE-G 8B | 20 | 8.0 x 50 | (guard column) |
| F6840004 | Asahipak ES-502N 20C | 13 | 20.0 x 100 | ES-502N 7C |
| F6710021 | Asahipak GS-20G 7B | 20 | 7.5 x 50 | (guard column) |

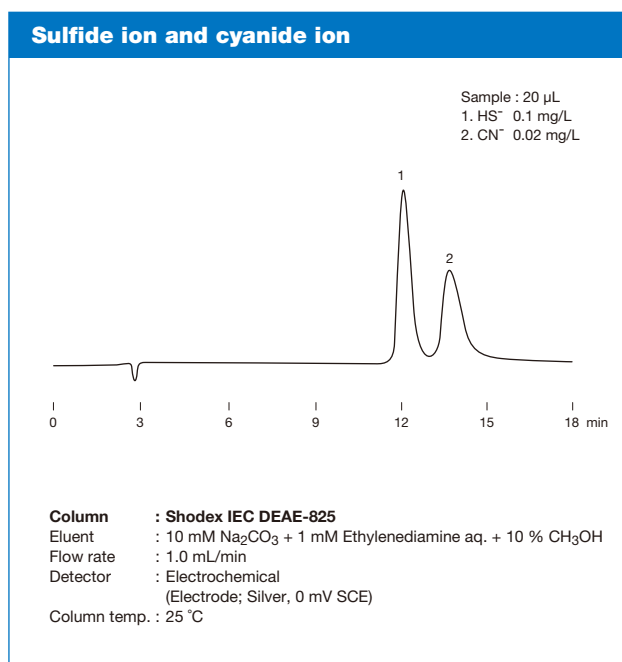
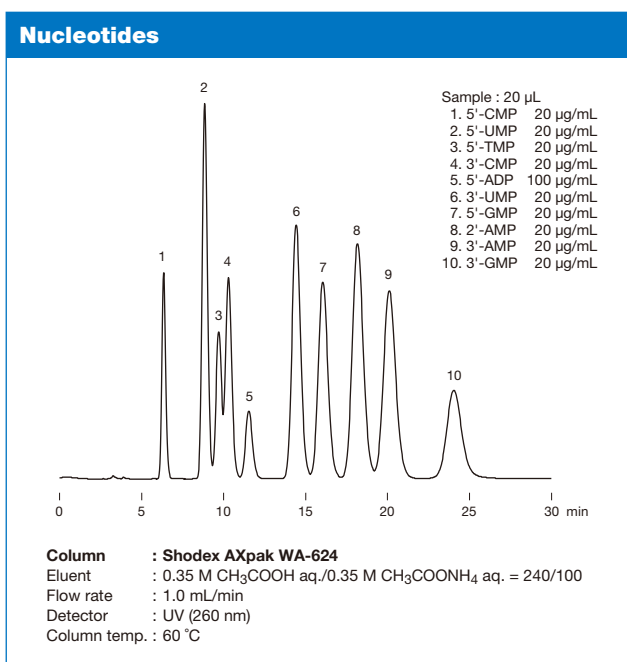
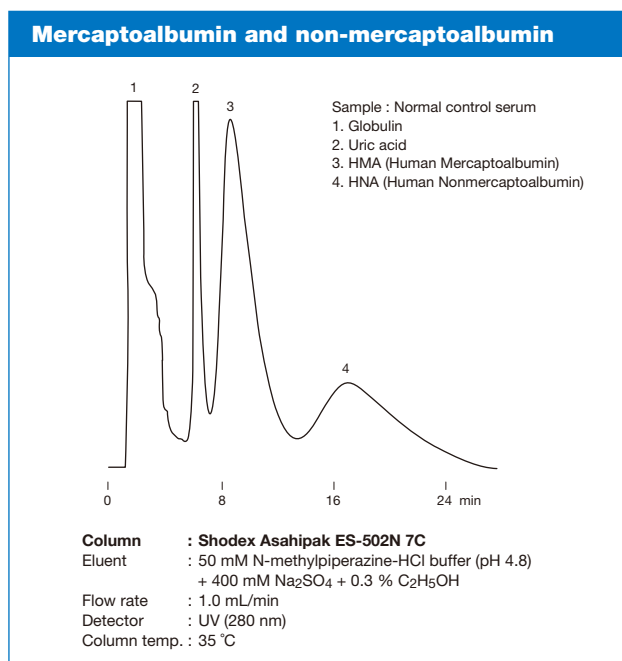
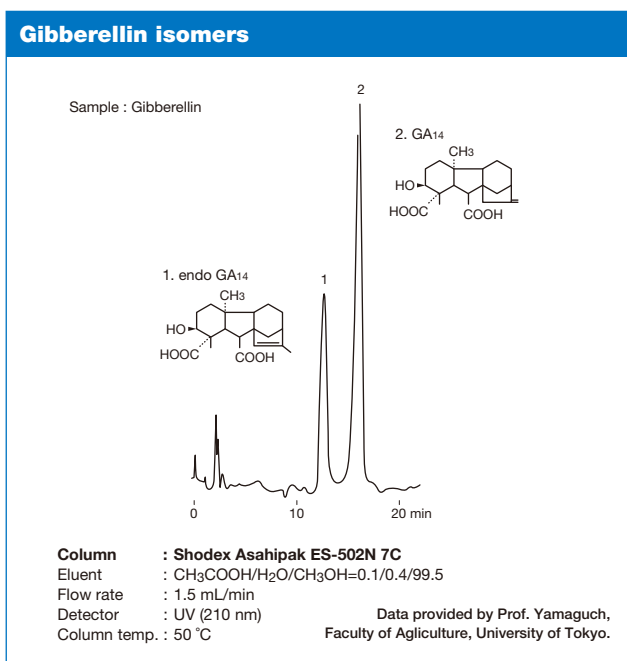
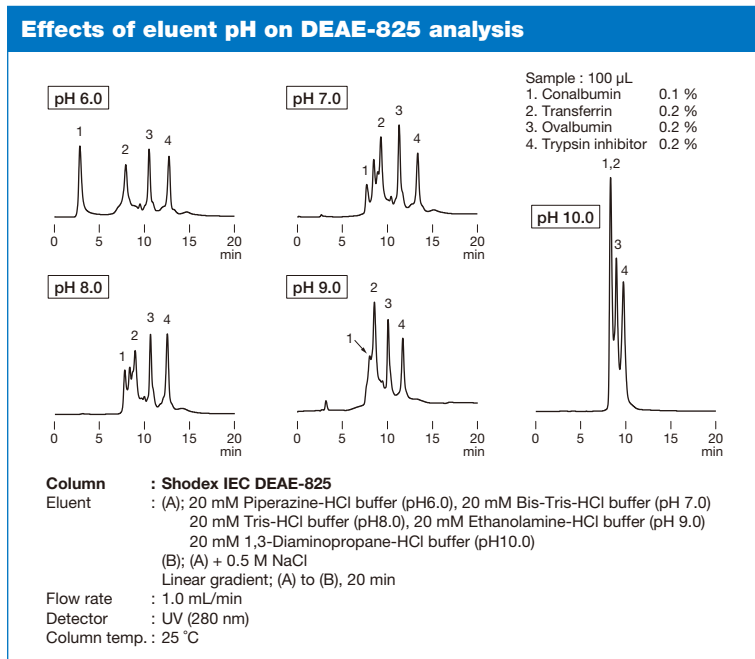
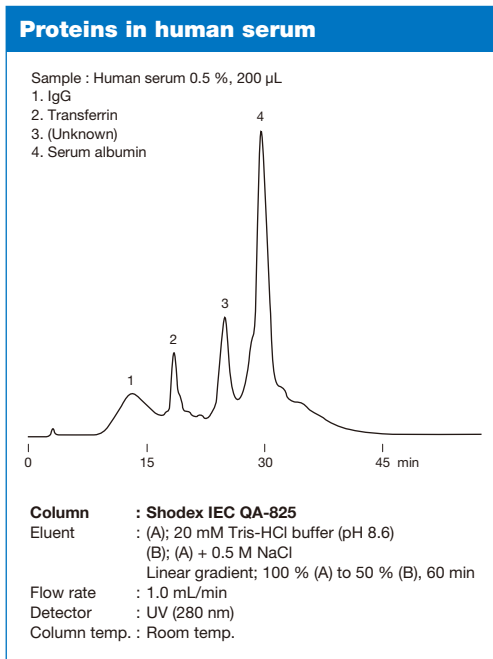


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Cation Exchange Chromatography Columns

Features

- SP-825**
CM-825
- Suitable for analyzing relatively high molecular weight compounds: proteins, peptides, DNA, and RNA
 - Usable in a wide pH range from pH 2 to 12

- SP-FT 4A**
- Non-porous base material
 - Provides ultra-rapid analysis using conventional devices

- ES-502C 7C**
- Compared to IEC series columns, polyvinyl alcohol is used as base material offering different separation pattern
 - Low hydrophobic interaction with proteins allows analysis under mild conditions

- P-421S**
- Column for amino acids analysis by cation exchange mode
 - Provides simultaneous analysis of different amino acids
 - Fulfills USP L22 and L58 requirements

● Standard columns

[Strong cation exchange resin] Functional Group: Sulfopropyl

| Product Code | Product Name | Ion Exchange Capacity (meq/g) | Base Material | Particle Size (µm) | Pore Size (Å) | Column Size (mm) I.D. x Length | Shipping Solvent |
|--------------|---------------------|-------------------------------|-------------------------|--------------------|---------------|--------------------------------|---|
| F6118250 | IEC SP-825 | 0.4 | Polyhydroxymethacrylate | 8 | 5,000 | 8.0 x 75 | 50 mM Na ₂ SO ₄ aq. |
| F6113100 | IEC SP-FT 4A | 0.2 | Polyhydroxymethacrylate | 2.7 | – | 4.6 x 10 | 20 mM MES* buffer (pH 5.6) |

Housing Material of SP-FT 4A: PEEK
*MES: 2-(N-Morpholino)ethanesulfonic acid

[Weak cation exchange resin] Functional Group: Carboxymethyl

| Product Code | Product Name | Ion Exchange Capacity (meq/g) | Base Material | Particle Size (µm) | Pore Size (Å) | Column Size (mm) I.D. x Length | Shipping Solvent |
|--------------|----------------------------|-------------------------------|-------------------------|--------------------|---------------|--------------------------------|---|
| F6110002 | IEC CM-825 | 0.4 | Polyhydroxymethacrylate | 8 | 5,000 | 8.0 x 75 | 50 mM Na ₂ SO ₄ aq. |
| F7640001 | Asahipak ES-502C 7C | 0.55 | Polyvinyl alcohol | 9 | 2,000 | 7.5 x 100 | 0.1 M Sodium phosphate buffer (pH 4.4) |

[For amino acid analysis] Functional Group: Sulfo (Na⁺)

| Product Code | Product Name | Plate Number (TP/column) | Base Material | Particle Size (µm) | Column Size (mm) I.D. x Length | Shipping Solvent |
|--------------|---------------------|--------------------------|----------------------------------|--------------------|--------------------------------|------------------|
| F6354211 | CXpak P-421S | ≥ 3,500 | Styrene divinylbenzene copolymer | 6 | 4.6 x 150 | H ₂ O |
| F6700210 | CXpak P-G | (guard column) | Styrene divinylbenzene copolymer | 6 | 4.6 x 10 | H ₂ O |

● Preparative columns [Preparative columns are made to order.]

| Product Code | Product Name | Particle Size (µm) | Column Size (mm) I.D. x Length | Standard column |
|--------------|-----------------------------|--------------------|--------------------------------|-----------------|
| F6548002 | IEC SP-2025 | 20 | 20.0 x 150 | SP-825 |
| F6709604 | IEC SP-G 8B | 20 | 8.0 x 50 | (guard column) |
| F6548003 | IEC CM-2025 | 20 | 20.0 x 150 | CM-825 |
| F6709605 | IEC CM-G 8B | 20 | 8.0 x 50 | (guard column) |
| F6840003 | Asahipak ES-502C 20C | 13 | 20.0 x 100 | ES-502C 7C |
| F6710021 | Asahipak GS-20G 7B | 20 | 7.5 x 50 | (guard column) |

