

AsahiKASEI

HEMODIALYZER

*ViE*TM - A

*VitabranE*TM
Vitamin E - interactive membrane



ASAHI KASEI MEDICAL CO., LTD.
A Pioneer in Blood Purification

Performance (in vitro)

| | ViE-15A | | | ViE-18A | | | ViE-21A | | |
|--|------------|-----|-----|------------|-----|-----|------------|-----|-----|
| Blood Flow (mL/min) | 200 | 300 | 400 | 200 | 300 | 400 | 200 | 300 | 400 |
| Clearances (mL/min) | | | | | | | | | |
| Urea | 195 | 268 | 314 | 197 | 273 | 323 | 198 | 279 | 333 |
| Creatinine | 196 | 267 | 305 | 197 | 273 | 315 | 198 | 279 | 327 |
| Phosphate | 182 | 232 | 263 | 185 | 240 | 275 | 189 | 250 | 288 |
| Vitamin B ₁₂ | 137 | 162 | 173 | 145 | 172 | 185 | 153 | 184 | 199 |
| Inulin | 98 | 110 | 114 | 103 | 115 | 123 | 114 | 128 | 135 |
| KoA (Urea)* (mL/min) | 1103 | | | 1214 | | | 1382 | | |
| KUF (mL/hr/mmHg (mL/hr/kPa)) | 67.8 (508) | | | 76.6 (575) | | | 89.0 (668) | | |
| Effective Surface Area (m ²) | 1.5 | | | 1.8 | | | 2.1 | | |
| Sieving Coefficient | | | | | | | | | |
| Vitamin B ₁₂ | 1.0 | | | | | | | | |
| Inulin | 1.0 | | | | | | | | |
| β ₂ -MG | 0.8 | | | | | | | | |
| Myoglobin | 0.4 | | | | | | | | |
| Albumin | < 0.001 | | | | | | | | |

Conditions: Clearances: Qd=500mL/min, Qf=0mL/min KUF: Bovine blood, Total protein = 60±5g/L, Hematocrit = 32±3%, Qb=300mL
 Sieving Coefficient: Bovine plasma, Total protein = 60±5g/L EN ISO 8637-1:2020

* KoA: Calculated from Urea clearance value obtained at Qb=300mL/min, Qd=500mL/min, Qf=0mL/min.

Specifications

| | ViE-15A | ViE-18A | ViE-21A |
|--|--|----------|----------|
| Membrane | VitabranE™ (Vitamin E-interactive Polysulfone) | | |
| Internal Diameter of Hollow Fiber (μm) | 185 | | |
| Wall Thickness of Hollow Fiber (μm) | 45 | | |
| Priming Volume (mL) | 86 | 103 | 117 |
| Maximum TMP (mmHg(kPa)) | 500 (66) | | |
| Maximum Blood Flow (mL/min) | 500 | | |
| Maximum Dialysate Flow (mL/min) | 800 | | |
| Dimensions (mm [L] x mm [D]) | 334 × 41 | 334 × 43 | 334 × 47 |
| Weight (g) | 463 | 520 | 604 |
| Sterilization | Gamma-Ray | | |

Note: High permeability devices. Use only with ultrafiltration controlling equipment. EN ISO 8637-1:2020