

- ▶ **Alburex** (CSL Behring UK Ltd)
Albumin solution human 50 mg per 1 ml Alburex 5% solution for infusion 500ml vials | 1 vial [PoM] £50.00
Albumin solution human 200 mg per 1 ml Alburex 20% solution for infusion 100ml vials | 1 vial [PoM] £40.00
- ▶ **Albutein** (Grifols UK Ltd)
Albumin solution human 50 mg per 1 ml Albutein 5% solution for infusion 500ml vials | 1 vial [PoM] £5
Albutein 5% solution for infusion 250ml vials | 1 vial [PoM] £5
Albumin solution human 200 mg per 1 ml Albutein 20% solution for infusion 100ml vials | 1 vial [PoM] £5
Albutein 20% solution for infusion 50ml vials | 1 vial [PoM] £5
- ▶ **Biostet** (Biostet (UK) Ltd)
Albumin solution human 50 mg per 1 ml Human Albumin Biostet 5% solution for infusion 250ml vials | 1 vial [PoM] £5
Albumin solution human 200 mg per 1 ml Human Albumin Biostet 20% solution for infusion 50ml vials | 1 vial [PoM] £5
Human Albumin Biostet 20% solution for infusion 100ml vials | 1 vial [PoM] £5
- ▶ **Grifols** (Grifols UK Ltd)
Albumin solution human 50 mg per 1 ml Human albumin Grifols 5% solution for infusion 500ml bottles | 1 bottle [PoM] £42.75
Human albumin Grifols 5% solution for infusion 250ml bottles | 1 bottle [PoM] £21.38
Albumin solution human 200 mg per 1 ml Human Albumin Grifols 20% solution for infusion 50ml vials | 1 vial [PoM] £23.40
Human Albumin Grifols 20% solution for infusion 100ml vials | 1 vial [PoM] £46.80
- ▶ **Zenalb** (Bio Products Laboratory Ltd)
Albumin solution human 45 mg per 1 ml Zenalb 4.5% solution for infusion 250ml bottles | 1 bottle [PoM] £27.51
Zenalb 4.5% solution for infusion 500ml bottles | 1 bottle [PoM] £55.02
Albumin solution human 200 mg per 1 ml Zenalb 20% solution for infusion 100ml bottles | 1 bottle [PoM] £54.00
Zenalb 20% solution for infusion 50ml bottles | 1 bottle [PoM] £27.00

PLASMA SUBSTITUTES

Gelatin

● INDICATIONS AND DOSE

Low blood volume in hypovolaemic shock, burns and cardiopulmonary bypass

- ▶ BY INTRAVENOUS INFUSION
- ▶ Adult: Initially 500–1000 mL, use 3.5–4% solution

- **CAUTIONS** Cardiac disease · severe liver disease
- **SIDE-EFFECTS**
- ▶ **Rare or very rare** Chills · dyspnoea · fever · hyperhidrosis · hypersensitivity · hypertension · hypotension · hypoxia · tachycardia · tremor · urticaria · wheezing
- **PREGNANCY** Manufacturer of *Geloplasma*[®] advises avoid at the end of pregnancy.
- **HEPATIC IMPAIRMENT** Manufacturers advise avoid preparations that contain lactate (risk of impaired lactate metabolism).
- **RENAL IMPAIRMENT** Use with caution in renal impairment.
- **MONITORING REQUIREMENTS**
- ▶ Urine output should be monitored. Care should be taken to avoid haematocrit concentration from falling below 25–30% and the patient should be monitored for hypersensitivity reactions.
- ▶ Plasma and plasma substitutes are often used in very ill patients whose condition is unstable. Therefore, close monitoring is required and fluid and electrolyte therapy should be adjusted according to the patient's condition at all times.
- **PRESCRIBING AND DISPENSING INFORMATION** The gelatin is partially degraded.
Gelaspan[®] contains succinylated gelatin (modified fluid gelatin, average molecular weight 26 500) 40 g, Na⁺ 151 mmol, K⁺ 4 mmol, Mg²⁺ 1 mmol, Cl⁻ 103 mmol, Ca²⁺ 1 mmol, acetate 24 mmol/litre; *Gelofusine*[®] contains succinylated gelatin (modified fluid gelatin, average

molecular weight 30 000) 40 g (4%), Na⁺ 154 mmol, Cl⁻ 124 mmol/litre; *Geloplasma*[®] contains partially hydrolysed and succinylated gelatin (modified liquid gelatin) (as anhydrous gelatin) 30 g (3%), Na⁺ 150 mmol, K⁺ 5 mmol, Mg²⁺ 1.5 mmol, Cl⁻ 100 mmol, lactate 30 mmol/litre; *Isoplex*[®] contains succinylated gelatin (modified fluid gelatin, average molecular weight 30 000) 40 g (4%), Na⁺ 145 mmol, K⁺ 4 mmol, Mg²⁺ 0.9 mmol, Cl⁻ 105 mmol, lactate 25 mmol/litre; *Volplex*[®] contains succinylated gelatin (modified fluid gelatin, average molecular weight 30 000) 40 g (4%), Na⁺ 154 mmol, Cl⁻ 125 mmol/litre.

- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug.

Infusion

- ▶ **Gelaspan** (B.Braun Medical Ltd)
Gelatin 40 mg per 1 ml Gelaspan 4% infusion 500ml Ecobags | 1 bag [PoM] £5.95 (Hospital only)
- ▶ **Gelofusine** (B.Braun Medical Ltd)
Gelatin 40 mg per 1 ml Gelofusine 4% infusion 1litre Ecobags | 1 bag [PoM] £9.31
Gelofusine 4% infusion 500ml Ecobags | 1 bag [PoM] £4.97
- ▶ **Geloplasma** (Fresenius Kabi Ltd)
Gelatin 30 mg per 1 ml Geloplasma 3% infusion 500ml Freeflex bags | 20 bag [PoM] £ (Hospital only)
- ▶ **Isoplex** (Kent Pharmaceuticals Ltd)
Gelatin 40 mg per 1 ml Isoplex 4% infusion 500ml bags | 10 bag [PoM] £75.00 (Hospital only)
- ▶ **Volplex** (Kent Pharmaceuticals Ltd)
Gelatin 40 mg per 1 ml Volplex 4% infusion 500ml bags | 10 bag [PoM] £47.00 (Hospital only)

Tetrastarch

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● INDICATIONS AND DOSE

VOLULYTE[®] INFUSION

Treatment of hypovolaemia due to acute blood loss when crystalloids alone are not sufficient

- ▶ BY INTRAVENOUS INFUSION
- ▶ Adult: Initially 10–20 mL, then increased to up to 30 mL/kg/day for a maximum duration of treatment of 24 hours, the initial dose must be given slowly and with careful monitoring of the patient to allow any anaphylactic reaction to be detected as early as possible

VOLUVEN[®] INFUSION

Treatment of hypovolaemia due to acute blood loss when crystalloids alone are not sufficient

- ▶ BY INTRAVENOUS INFUSION
- ▶ Adult: Initially 10–20 mL, then increased to up to 30 mL/kg/day for maximum duration of treatment of 24 hours, the initial dose must be given slowly and with careful monitoring of the patient to allow any anaphylactic reaction to be detected as early as possible

- **CONTRA-INDICATIONS** Burns · cerebral haemorrhage · congestive heart failure · critically ill patients · dehydration · hyperhydration · intracranial haemorrhage · organ transplant patients · pulmonary oedema · sepsis · severe coagulopathy · severe hyperchloraemia · severe hyperkalaemia · severe hypernatraemia
- **CAUTIONS** Cardiac disease · care should be taken to avoid haematocrit concentration from falling below 25–30% · children · renal impairment · severe liver disease · surgery · trauma
- **SIDE-EFFECTS**
- ▶ **Common or very common** Pruritus
- ▶ **Rare or very rare** Coagulation disorder · hypersensitivity
- **HEPATIC IMPAIRMENT** Manufacturer advises caution in mild to moderate impairment; avoid in severe impairment.
- **RENAL IMPAIRMENT** Avoid.