SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

EXTRANEAL Solution for peritoneal dialysis

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

A sterile peritoneal dialysis fluid containing Icodextrin at a concentration of 7.5% w/v in an electrolyte solution.

| Icodextrin | 75 | g/L |
|--------------------|-------|-----|
| Sodium Chloride | 5.4 | g/L |
| Sodium S-Lactate | 4.5 | g/L |
| Calcium Chloride | 0.257 | g/L |
| Magnesium Chloride | 0.051 | g/L |

Theoretical osmolarity: 284 (milliosmoles per litre) Theoretical osmolality: 301 (milliosmoles per kg)

Electrolyte solution content per 1000 ml: Sodium 133 mmol/L Calcium 1.75 mmol/L Magnesium 0.25 mmol/L 96 Chloride mmol/L Lactate mmol/L 40

pH = 5 to 6

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Solution for peritoneal dialysis.

Extraneal is a sterile, clear, colourless solution.

4. CLINICAL PARTICULARS

4.1 Therapeutic Indications

Extraneal is recommended as a once daily replacement for a single glucose exchange as part of a continuous ambulatory peritoneal dialysis (CAPD) or automated peritoneal dialysis (APD) regimen for the treatment of chronic renal failure, particularly for patients who have lost ultrafiltration on glucose solutions, because it can extend time on CAPD therapy in such patients.

4.2 Posology and Method of Administration

Posology:

Extraneal is recommended for use during the longest dwell period, i.e. in CAPD usually overnight and in APD for the long daytime dwell.

The mode of therapy, frequency of treatment, exchange volume, duration of dwell and

length of dialysis should be initiated and supervised by the physician.

Adults

By intraperitoneal administration limited to a single exchange in each 24 hour-period, as part of a CAPD or APD regimen.

The volume to be instilled should be given over a period of approximately 10 to 20 minutes at a rate which the patient finds comfortable. For adult patients of normal body size the instilled volume should not exceed 2.0 L. For larger patients (more than 70-75 kg), a fill volume of 2.5 L may be used.

If the instilled volume causes discomfort due to abdominal tension the instilled volume should be reduced. The recommended dwell time is between 6 and 12 hours in CAPD and 14-16 hours in APD. Drainage of the fluid is by gravity at a rate comfortable for the patient.

Older people

As for Adults.

Paediatric population

The safety and efficacy of Extraneal in children aged less than 18 years has not been established. No data are available.

Administration:

Precautions to be taken before handling or administering the medicinal product

- EXTRANEAL is intended for intraperitoneal administration only. Not for intravenous injection.
- Peritoneal dialysis solutions may be warmed in the overpouch to 37°C to enhance
 patient comfort. However, only dry heat (for example, heating pad, warming plate)
 should be used. Solutions should not be heated in water or in a microwave oven due to
 the potential for patient injury or discomfort.
- Aseptic technique should be employed throughout the peritoneal dialysis procedure.
- Do not administer if the solution is discoloured, cloudy, contains particulate matter or shows evidence of leakage, or if seals are not intact.
- The drained fluid should be inspected for the presence of fibrin or cloudiness, which may indicate the presence of infection or aseptic peritonitis (see Section 4.4).
- For single use only

4.3 Contra-indications

Extraneal should not be used in patients with:

- Hypersensitivity to the active substance(s) or to any of the excipients listed in section
 6.1
- a known allergy to starch based polymers (e.g. maize starch) and/or icodextrin
- maltose or isomaltose intolerance
- glycogen storage disease
- pre-existing severe lactic acidocis
- uncorrectable mechanical defects that prevent effective PD or increase the risk of infection

 Documented loss of peritoneal function or extensive adhesions that compromise peritoneal function

4.4 Special Warnings and Precautions for Use

- Patients with diabetes mellitus often need additional insulin in order to maintain glycaemic control during Peritoneal Dialysis (PD). Transfer from glucose based PD solution to Extraneal may necessitate an adjustment of the usual insulin dosage. Insulin can be administered intraperitoneally.
- Blood glucose measurement must be done with a glucose specific method to prevent maltose interference. Glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO)-based methods should not be used. Also, the use of some glucose monitors and test strips using glucose dehydrogenase flavinadenine dinucleotide (GDH-FAD) methodology has resulted in falsely elevated glucose readings due to the presence of maltose. The manufacturer(s) of the monitor and test strips should be contacted to determine if icodextrin or maltose causes interference or falsely elevated glucose results.
- If GDH-PQQ, GDO, or GDH-FAD-based methods are used, using Extraneal may cause a falsely high glucose reading, which could result in the administration of more insulin than needed. Administration of more insulin than needed has caused hypoglycaemia, which has resulted in loss of consciousness, coma, neurological damage and death. Additionally, falsely elevated blood glucose measurements due to maltose interference may mask true hypoglycaemia and allow it to go untreated with similar consequences. Falsely elevated glucose levels may be measured up to two weeks following cessation of EXTRANEAL (icodextrin) therapy when GDH-PQQ, GDO or GDH-FAD-based blood glucose monitors and test strips are used.

Because GDH-PQQ, GDO, or GDH-FAD-based blood glucose monitors may be used in hospital settings, it is important that the health care providers of peritoneal dialysis patients using EXTRANEAL (icodextrin) carefully review the product information of the blood glucose testing system, including that of test strips, to determine if the system is appropriate for use with EXTRANEAL (icodextrin).

To avoid improper insulin administration, educate patients to alert healthcare providers of this interaction whenever they are admitted to the hospital.

- Peritoneal dialysis should be done with caution in patients with: 1) abdominal conditions, including disruption of the peritoneal membrane and diaphragm by surgery, from congenital anomalies or trauma until healing is complete, abdominal tumours, abdominal wall infection, hernias, faecal fistula, colostomy or iliostomy, frequent episodes of diverticulitis, inflammatory or ischemic bowel disease, large polycystic kidneys, or other conditions that compromise the integrity of the abdominal wall, abdominal surface, or intra-abdominal cavity; and 2) other conditions including recent aortic graft replacement and severe pulmonary disease.
- Encapsulating peritoneal sclerosis (EPS) is considered to be a known, rare
 complication of peritoneal dialysis therapy. EPS has been reported in patients using
 peritoneal dialysis solutions including some patients using EXTRANEAL as part of
 their PD therapy. Infrequently, fatal outcomes have been reported with
 EXTRANEAL.
- Patients with conditions known to increase the risk of lactic acidocis [e.g., severe hypotension, sepsis, acute renal failure, inborn errors of metabolism, treatment with drugs such as metformin and nucleoside/nucleotide reverse transcriptase inhibitors (NRTIs)] should be monitored for occurrence of lactic acidosis before the start of treatment and during treatment with lactate-based peritoneal dialysis solutions.

- When prescribing the solution to be used for an individual patient, consideration should
 be given to the potential interaction between the dialysis treatment and therapy directed
 at other existing illnesses. Serum potassium levels should be monitored carefully in
 patients treated with cardiac glycosides.
- Peritoneal reactions, including abdominal pain, cloudy effluents with or without bacteria (aseptic peritonitis) have been associated with Extraneal (see section 4.8). In case of peritoneal reactions, the patient should keep the icodextrin drained fluid bag along with its batch number, and contact the medical team for analysis of the drained fluid bag.

The drained fluid should be inspected for the presence of fibrin or cloudiness, which may indicate the presence of infection or aseptic peritonitis. Patients should be asked to inform their physician if this occurs and appropriate microbiological samples should be drawn. The initiation of antibiotic treatment should be a clinical decision based on whether or not infection is suspected. If other possible reasons for cloudy fluid have been excluded, Extraneal should be stopped and the result of this action evaluated. If Extraneal is stopped and the fluid becomes clear afterwards, Extraneal should not be reintroduced unless under close supervision. If by re-challenging with Extraneal, the cloudy fluid recurs then this patient should not be prescribed Extraneal again. Alternative peritoneal dialysis therapy should be initiated and the patient should be kept under close supervision.

- If peritonitis occurs, the choice and dosage of antibiotics should be based upon the
 results of identification and sensitivity studies of the isolated organism(s) when
 possible. Prior to identification of the involved organism(s), broadspectrum antibiotics
 may be indicated.
- Rarely, serious hypersensitivity reactions to Extraneal have been reported such as
 toxic epidermal necrolysis, angioedema, erythema multiforme and vasculitis.
 Anaphylactic/anaphylactoid reactions may occur. Stop the infusion immediately and
 drain the solution from the peritoneal cavity if any signs or symptoms of a suspected
 hypersensitivity reaction develop. Appropriate therapeutic countermeasures must be
 instituted as clinically indicated.
- Extraneal is not recommended in patients with acute renal failure.
- Protein, amino acids, water-soluble vitamins and other medicines may be lost during peritoneal dialysis and may require replacement.
- Patients should be carefully monitored to avoid over or under hydration. Enhanced
 ultra-filtration, particularly in elderly patients, may lead to dehydration, resulting in
 hypotension and possibly neurological symptoms. An accurate fluid balance record
 should be kept and the patient's body weight monitored.
- Overinfusion of an EXTRANEAL volume into the peritoneal cavity may be characterised by abdominal distension, feeling of fullness and/or shortness of breath.
- Treatment of EXTRANEAL overinfusion is to release the EXTRANEAL from the
 peritoneal cavity by drainage of the EXTRANEAL volume contained within the
 peritoneal cavity.
- In common with other peritoneal dialysis fluids, Icodextrin should be used with caution, after careful evaluation of its potential risks and benefits, in patients with conditions which preclude normal nutrition, with impaired respiratory function or with potassium deficiency.
- Fluid, haematology, blood chemistry, and electrolyte concentrations should be monitored periodically, including magnesium and bicarbonate. If serum magnesium

levels are low, oral magnesium supplements or peritoneal dialysis solutions containing higher magnesium concentrations may be used.

- A decrease in the serum sodium and chloride level has been observed in some
 patients. Though these decreases have been regarded as clinically non-significant, it is
 recommended that serum electrolyte levels are monitored regularly.
- A decrease in serum amylase levels has also been noticed as a common finding in PD patients on long term treatment. The decrease has not been reported to be accompanied with any side effects. However, it is not known whether subnormal amylase level may mask the rise in serum amylase, commonly seen during acute pancreatitis. An increase in serum alkaline phosphatase of approximately 20 IU/L was seen during clinical trials. There were individual cases where increased alkaline phosphatase was associated with elevated SGOT levels.

Paediatric population

Extraneal is not recommended in children

4.5 Interactions with other Medicinal Products and other forms of Interaction

No interaction studies have been conducted with EXTRANEAL. The blood concentrations of dialysable drugs may be reduced by dialysis. Corrective therapy should be instituted if necessary.

Blood glucose measurement must be done with a glucose-specific method to prevent maltose interference. Glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ)- or glucose-dye-oxidoreductase—based methods must not be used. Also, the use of some glucose monitors and test strips using glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) methodology has resulted in falsely elevated glucose readings due to the presence of maltose. (see section 4.4).

4.6 Pregnancy and Lactation

Pregnancy

There are no or limited amount of data from the use of Extraneal in pregnant women. Animal studies are insufficient with respect to reproductive toxicity (see section 5.3). Extraneal is not recommended during pregnancy and in women of childbearing potential not using contraception.

Breastfeeding

It is unknown whether Extraneal metabolites are excreted in human milk.

A risk to the newborns/infants cannot be excluded.

A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from Extraneal therapy taking into account the benefit of breast feeding for the child and the benefit of therapy for the woman.

Fertility

There are no clinical data on fertility.

4.7 Effects on Ability to Drive and Use Machines

End stage renal disease (ESRD) patients undergoing peritoneal dialysis may experience undesirable effects, which could affect the ability to drive or use machines.

4.8 Undesirable Effects

Undesirable effects which occurred in patients treated with Extraneal from the clinical trials and post marketing are listed below.

Extraneal associated skin reactions, including rash and pruritus, are generally mild or moderate in severity. Occasionally, these rashes have been associated with exfoliation. In the event of this occurring and depending on the severity, Extraneal should be withdrawn at least temporarily.

Frequency is based upon the following scale: Very Common (\geq 1/10); Common (\geq 1/100-<1/10), Uncommon (\geq 1/1,000-<1/100), Rare (\geq 1/10,000-<1/1,000), Very Rare (<1/10,000), not known (cannot be estimated from the available data).

| System Organ Class (SOC) | Preferred MedDRA Term | Frequency |
|--------------------------|-------------------------|-------------|
| INFECTIONS AND | Flu syndrome | Uncommon |
| INFESTATIONS | Furuncle | Uncommon |
| | | |
| BLOOD AND LYMPHATIC | Anaemia | Uncommon |
| SYSTEM DISORDERS | Leukocytosis | Uncommon |
| | Eosinophilia | Uncommon |
| | Thrombocytopenia | Not known |
| | Leucopenia | Not known |
| IMMUNE SYSTEM DISORDERS | Vasculitis | Not known |
| INIMONE STSTEM DISORDERS | 1 | Not known |
| | Hypersensitivity** | Not known |
| METABOLISM AND | Dehydration | Common |
| NUTRITION DISORDERS | Hypovolaemia | Common |
| | Hypoglycaemia | Uncommon |
| | Hyponatraemia | Uncommon |
| | Hyperglycaemia | Uncommon |
| | Hypervolaemia | Uncommon |
| | Anorexia | Uncommon |
| | Hypochloraemia | Uncommon |
| | Hypomagnesaemia | Uncommon |
| | Hypoproteinaemia | Uncommon |
| | Shock hypoglycaemia | Not known |
| | Fluid imbalance | Not known |
| | | |
| PSYCHIATRIC DISORDERS | Thinking abnormal | Uncommon |
| | Anxiety | Uncommon |
| | Nervousness | Uncommon |
| NERVOUS SYSTEM | Dizziness | Common |
| DISORDERS | Headache | Common |
| | Hyperkinesia | Uncommon |
| | Paraesthesia | Uncommon |
| | Ageusia | Uncommon |
| | Hypoglycaemic coma | Not known |
| | Burning sensation | Not known |
| | Building solicution | Tiot Mio Wi |
| EYE DISORDERS | Vision blurred | Not known |
| EAR AND LABYRINTH | Tinnitus | Common |
| DISORDERS | | |
| CARDIAC DISORDERS | Cardiovascular disorder | Uncommon |
| | Tachycardia | Uncommon |
| | | |

| System Organ Class (SOC) | Preferred MedDRA Term | Frequency |
|--------------------------|------------------------------------|-----------|
| VASCULAR DISORDERS | Hypotension | Common |
| | Hypertension | Common |
| | Orthostatic hypotension | Uncommon |
| | 1 | |
| RESPIRATORY, THORACIC, | Pulmonary oedema | Uncommon |
| AND MEDIASTINAL | Dyspnoea | Uncommon |
| DISORDERS | Cough | Uncommon |
| | Hiccups | Uncommon |
| | Bronchospasm | Not known |
| GASTROINTESTINAL | Abdominal pain | Common |
| DISORDERS | Ileus | Uncommon |
| DISORDERS | Peritonitis | Uncommon |
| | Bloody peritoneal effluent | Uncommon |
| | Diarrhoea | Uncommon |
| | Gastric ulcer | Uncommon |
| | Gastritis | Uncommon |
| | Vomiting | Uncommon |
| | Constipation | Uncommon |
| | Dyspepsia | Uncommon |
| | Nausea | Uncommon |
| | Dry mouth | Uncommon |
| | Flatulence | Uncommon |
| | Ascites | Not known |
| | Inguinal hernia | Not known |
| | Abdominal discomfort | Not known |
| | Trodominar discomment | |
| SKIN AND SUBCUTANEOUS | Rash (including macular, papular, | Common |
| TISSUE DISORDERS | erythematous) | |
| | Pruritus | Common |
| | Skin exfoliation | Common |
| | Urticaria | Uncommon |
| | Dermatitis bullous | Uncommon |
| | Psoriasis | Uncommon |
| | Skin ulcer | Uncommon |
| | Eczema | Uncommon |
| | Nail disorder | Uncommon |
| | Dry skin | Uncommon |
| | Skin discolouration | Uncommon |
| | Toxic epidermal necrolysis | Not known |
| | Erythema multiform | Not known |
| | Angiodema | Not known |
| | Urticaria generalised | Not known |
| | Toxic skin eruption | Not known |
| | Periorbital oedema | Not known |
| | Dermatitis (including allergic and | Not known |
| | contact) | |
| | Erythema | Not known |
| | Blister | Not known |
| MIICCHI OCUELETAI | Dana main | Lingger |
| MUSCULOSKELETAL | Bone pain | Uncommon |
| ANDCONNECTIVE TISSUE | Muscle spasms | Uncommon |
| DISORDERS | Myalgia | Uncommon |
| | Neck pain | Uncommon |
| | Arthralgia | Not known |
| | Back pain | Not known |
| | Musculoskeletal pain | Not known |
| | | |

| System Organ Class (SOC) | Preferred MedDRA Term | Frequency |
|--------------------------|--------------------------------|-----------|
| RENAL AND URINARY | Renal pain | Uncommon |
| DISORDERS | | |
| GENERAL DISORDERS AND | Oedema peripheral | Common |
| ADMINISTRATIVE SITE | Asthenia | Common |
| CONDITIONS | Chest pain | Uncommon |
| | Face oedema | Uncommon |
| | Oedema | Uncommon |
| | Pain | Uncommon |
| | Pyrexia | Not known |
| | Chills | Not known |
| | Malaise | Not known |
| | Catheter site erythema | Not known |
| | Catheter site inflammation | Not known |
| | Infusion related reaction | Not known |
| | (including infusion site pain, | |
| | instillation site pain) | |
| INVESTIGATIONS | Alanine aminotransferase | Uncommon |
| | increased | Uncommon |
| | Aspartate aminotransferase | |
| | increased | Uncommon |
| | Blood alkaline phosphatase | |
| | increased | Uncommon |
| | Liver function test abnormal | Uncommon |
| | Weight decreased | Uncommon |
| | Weight increased | |
| INJURY, POISONING, AND | Device interaction* | Not known |
| PROCEDURAL | | |
| COMPLICATIONS | | |

^{*}Icodextrin interferes with blood glucose measurement devices (see section 4.4).

Other undesirable effects of peritoneal dialysis related to the procedure: fungal peritonitis, bacterial peritonitis, catheter site infection, catheter related infection and catheter related complication.

Enhanced ultrafiltration, particularly in the elderly patients, may lead to dehydration, resulting in hypotension, dizziness and possibly neurological symptoms (see section 4.4).

Hypoglycaemic episodes in diabetic patients (see section 4.4).

Increase in serum alkaline phosphatases (see section 4.4) and electrolyte disturbances (e.g. hypokalaemia, hypocalcaemia and hypercalcaemia).

Peritoneal reactions, including abdominal pain, cloudy effluents with or without bacteria, aseptic peritonitis (see section 4.4).

Fatigue was often reported spontaneously and in literature as an undesirable effect related to the procedure.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via HPRA Pharmacovigilance, Earlsfort Terrace, IRL - Dublin 2.

Tel: +353 1 6764971

^{**} Hypersensitivity-type reactions have been reported in patients using Extraneal including bronchospasm, hypotension, rash, pruritus and urticaria

Fax: +353 1 6762517 Website: www.hpra.ie e-mail: medsafety@hpra.ie

4.9 Overdose

No data are available on the effects of overdosage. However, continuous administration of more than one bag of Extraneal in 24 hours would increase plasma levels of carbohydrate metabolites and maltose. The effects of such an increase are unknown but an increase in plasma osmolality may occur. Treatment could be managed by Icodextrin-free peritoneal dialysis or haemodialysis.

5. PHARMACOLOGICAL PROPERTIES

Code ATC: B05DA

5.1 Pharmacodynamic Properties

Icodextrin is a starch-derived glucose polymer which acts as an osmotic agent when administered intraperitoneally for continuous ambulatory peritoneal dialysis. A 7.5% solution is approximately iso-osmolar to serum but produces sustained ultrafiltration over a period up to 12 hours in CAPD. There is a reduction in calorie load compared to hyperosmolar glucose solutions.

The volume of ultrafiltrate produced is comparable to that with 3.86% glucose when used in CAPD. Blood glucose and insulin levels remain unaffected.

Ultrafiltration is maintained during episodes of peritonitis.

The recommended posology is limited to a single exchange in each 24 hour-period, as part of a CAPD or APD regimen.

5.2 Pharmacokinetic Properties

Carbohydrate polymer levels in blood reach steady state after about 7-10 days when used on a daily basis for overnight dialysis. The polymer is hydrolysed by amylase to smaller fragments which are cleared by peritoneal dialysis. Steady state plasma levels of 1.8 mg/ml have been measured for oligomers of glucose units greater than 9 (G9) and there is a rise in serum maltose (G2) to 1.1 mg/ml but there is no significant change in serum osmolality. When used for the long day time dwell in APD maltose levels of 1.4 mg/ml have been measured but with no significant change in serum osmolality.

The long-term effects of raised plasma levels of maltose and glucose polymer are unknown, but there is no reason to suppose these to be harmful.

5.3 Preclinical Safety Data

Acute toxicity

Acute i.v. and i.p. studies in mice and rats have demonstrated no effects at doses up to 2000mg/kg.

Subchronic toxicity

Twice daily i.p. administration of 20% Icodextrin solution for 28 days to rats and dogs revealed no target organ or tissue toxicity. The major effect was upon the dynamics of fluid balance.

Mutagenic and tumorigenic potential

In vitro and in vivo studies on mutagenicity gave negative results. Carcinogenicity studies with the product are not feasible but carcinogenic effects are unlikely given the chemical nature of the molecule, its lack of pharmacological effect, lack of target organ toxicity and negative results in mutagenicity studies.

Reproductive toxicity

A reproduction toxicity study in rats demonstrated no effect on fertility or embryofetal development.

6. PHARMACEUTICAL PARTICULARS

6.1 List of Excipients

Water for Injections Sodium Hydroxide or Hydrochloric acid q.s. to required pH.

6.2 Incompatibilities

None known.

Drug compatibility must be checked before admixture. In addition, the pH and salts of the solution must be taken into account.

6.3 Shelf Life

2 years.

12 months (for medicinal products manufactured at Alliston, Canada and North Cove, USA only).

The product, once removed from its overpouch should be used immediately.

6.4 Special Precautions for Storage

Do not store below 4°C.

Do not use unless the solution is clear and the container undamaged.

6.5 Nature and Contents of Container

Flexible PVC container holding 1.5, 2.0 or 2.5 litres.

The lineo connector that may equip the Y transfer line of the twin bag, contains 10.5% of Povidone jodine ointment

| 1.5 L | 8 units per box | Single bag Sy II (luer connector) |
|-------|-----------------|-------------------------------------|
| 1.5 L | 8 units per box | Single bag Sy III (spike connector) |
| 1.5 L | 8 units per box | Twin bag Sy II (luer connector) |
| 1.5 L | 8 units per box | Twin bag Sy III (spike connector) |
| 1.5 L | 6 units per box | Single bag Sy II (luer connector) |
| 1.5 L | 6 units per box | Single bag Sy III (spike connector) |
| 1.5 L | 6 units per box | Twin bag Sy II (luer connector) |
| 1.5 L | 6 units per box | Twin bag Sy III (spike connector) |
| 1.5 L | 6 units per box | Twin bag (lineo connector) |
| 2.0 L | 8 units per box | Single bag Sy II (luer connector) |

| 2.0 L | 8 units per box | Single bag Sy III (spike connector) |
|-------|-----------------|-------------------------------------|
| 2.0 L | 8 units per box | Twin bag Sy II (luer connector) |
| 2.0 L | 8 units per box | Twin bag Sy III (spike connector) |
| 2.0 L | 6 units per box | Single bag Sy II (luer connector) |
| 2.0 L | 6 units per box | Single bag Sy III (spike connector) |
| 2.0 L | 6 units per box | Twin bag Sy II (luer connector) |
| 2.0 L | 6 units per box | Twin bag Sy III (spike connector) |
| 2.0 L | 5 units per box | Single bag Sy II (luer connector) |
| 2.0 L | 5 units per box | Single bag Sy III (spike connector) |
| 2.0 L | 5 units per box | Twin bag Sy II (luer connector) |
| 2.0 L | 5 units per box | Twin bag Sy III (spike connector) |
| 2.0 L | 5 units per box | Twin bag (lineo connector) |
| 2.5 L | 5 units per box | Single bag Sy II (luer connector) |
| 2.5 L | 5 units per box | Single bag Sy III (spike connector) |
| 2.5 L | 5 units per box | Twin bag Sy II (luer connector) |
| 2.5 L | 5 units per box | Twin bag Sy III (spike connector) |
| 2.5 L | 4 units per box | Single bag Sy II (luer connector) |
| 2.5 L | 4 units per box | Single bag Sy III (spike connector) |
| 2.5 L | 4 units per box | Twin bag Sy II (luer connector) |
| 2.5 L | 4 units per box | Twin bag Sy III (spike connector) |
| | | |

Not all pack sizes may be marketed.

6.6 Special Precautions for Disposal

For details see section 4.2

A range of antibiotics including vancomycin, cephazolin, ampicillin/flucloxacillin, ceftazidime, gentamycin, amphotericin and insulin have shown no evidence of incompatibility with Extraneal. However aminoglycosides should not be mixed with penicillins due to chemical incompatibility.

The product should be used immediately after adding any drug. Discard any unused remaining solution.

7. MARKETING AUTHORISATION HOLDER

Baxter Holding B.V. Kobaltweg 49, 3542CE Utrecht, Netherlands

8. MARKETING AUTHORISATION NUMBER

PA2299/017/001

9. DATE OF FIRST AUTHORISATION/RENEWAL OF AUTHORISATION

Date or First Authorisation: 25th July 1997 Renewal of Authorisation: 6th January 2012

10. DATE OF REVISION OF THE TEXT

April 2019