Summary of Product Characteristics

1 NAME OF THE VETERINARY MEDICINAL PRODUCT

Liquid Life Aid Concentrate for Oral Solution for Cattle, Pigs and Sheep

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml contains:

Active Substances:

Glucose Monohydrate	306.675	mg
Sodium Chloride	53.75	mg
Sodium Propionate	2.625	mg
Potassium Dihydrogen Orthophosphate	25.425	mg
Glycine	38.75	mg

Excipients:

Quinoline yellow	0.2	mg
Sodium Metabisulphite (E223)	1.0	mg

For a full list of excipients see section 6.1.

Liquid Life Aid is intended to be used in its diluted form. On reconstitution the available ion concentrations are as follows:

Sodium	75.7	mmol/L
Potassium	15.0	mmol/L
Phosphate	15.0	mmol/L
Propionate	2.17	mmol/L
Chloride	73.5	mmol/L
Glycine	41.3	mmol/L
Dextrose	123.75	mmol/L

3 PHARMACEUTICAL FORM

Concentrate for Oral Solution
A clear yellow aqueous solution

4 CLINICAL PARTICULARS

4.1 Target Species

Cattle, pigs and sheep.

4.2 Indications for use, specifying the target species

Liquid Life-Aid is indicated in the reversal of the process of dehydration and electrolyte loss associated with scours in calves and pigs whether due to nutritional, bacterial or viral causes. It is also indicated as an aid in recovery from pregnancy toxaemia and reversal of hypoglycaemia in sheep.

4.3 Contraindications

None.

4.4 Special warnings for each target species

Piglets must not be left without a supply of prepared solution, drinking water or sow's milk during the period of treatment. Weaned pigs sometimes over-drink the prepared solution if given *ad lib*. The concentration should be reduced to 50% of normal when this is encountered.

4.5 Special precautions for use

Special precautions for use in animals

Adequate colostrum should have been fed to calves. Normal feeding should be resumed after the course of treatment. Fresh solutions should be prepared for each administration.

In severe cases some animals may require additional intravenous rehydration therapy. In such cases consult a veterinary surgeon. If the condition fails to improve within 3-4 days consult a veterinary surgeon.

Special precautions to be taken by the person administering the veterinary medicinal product to animals

None.

4.6 Adverse reactions (frequency and seriousness)

None.

4.7 Use during pregnancy, lactation or lay

Can be used during pregnancy and lactation.

4.8 Interaction with other medicinal products and other forms of interactions

None known.

4.9 Amounts to be administered and administration route

Calves and Pigs:
Liquid-Life-Aid is intended for oral administration only after dilution with 11.5 times its own volume of water.

Bought in calves:For nutritional support, administer 2 litres of prepared solution replacing the first feed on arrival. For the next feed give 1 litre of solution and 1 litre of milk replacer after which normal diet may be resumed.

Scouring calves: All milk and milk replacer is withdrawn. 2 litres of freshly prepared solution to be given twice daily for 2 days. For the next 4 feeds (2 days) 1 litre of solution and 1 litre of milk replacer to be administered. Thereafter normal diet is resumed. If symptoms are severe, the solution may be fed 3 or 4 times daily. The solution may be given for a maximum of 4 days only, when administered on its own.

Pigs - Suckling pigs: When symptoms appear, fresh solution to be made available to the whole litter in a clean container, with access to water and sow's milk maintained throughout dosing period. Allow approximately 200-300 ml (7-10 fl oz) of solution per piglet daily, the amount being determined by the age of the piglets, the number in the litter and the severity of the symptoms. Occasionally restriction of the water supply for a few hours may be necessary to encourage pigs to start drinking the prepared solution. Treatment may be continued for up to 8 days in total if symptoms persist.

Weaned pigs: Fresh solution to be made available to pigs showing signs of scour, allowing up to 1 litre daily for each weaner depending on the age of the pigs and the severity of the symptoms. It is advisable to restrict solid feed intake for the initial 1-2 days of dosing but fresh water supply should be maintained. Treatment may be continued for up to 8 days in total if symptoms persist.
Sheep: In case of pregnancy toxaemia in sheep 160ml of undiluted product should be administered using a suitable drenching bottle. Treatment should be repeated 3- 6 times daily as required.

4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary

Not applicable.

4.11 Withdrawal period(s)

Meat and offal: zero days.

Milk: zero days.

5 PHARMACOLOGICAL or IMMUNOLOGICAL PROPERTIES

Pharmacotherapeutic group: Alimentary tract and metabolism, antidiarrheals, intestinal anti-inflammatory/anti-infective agents, oral electrolytes and carbohydrates.

ATC vet code: QA07CQ02Liquid Life Aid on reconstitution contains the following available ions; sodium, potassium, phosphate, propionate, chloride, plus glycine and glucose. Following oral administration to calves and pigs the animals intestinal absorptive mechanisms remain functional. This maintains the absorption of sodium and water into the blood and a reversal of the dehydration process which is the major cause of death in scours.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Sodium Metabisulphite (E223)
Disodium Edetate
Quinoline yellow
Sodium Hydroxide (for pH adjustment)
Hydrochloric Acid (for pH adjustment)
Purified Water

6.2 Major incompatibilities

None known.

6.3 Shelf-life

Shelf-life of the veterinary medicinal product as packaged for sale: 18 months.

6.4 Special precautions for storage

Store below 25°C.

6.5 Nature and composition of immediate packaging

The product is marketed in 1 litre translucent high density polyethylene dispenser bottles containing 960 ml. The main chamber of the container is sealed with 38mm diameter tamper proof screw cap and the dispenser chamber is sealed with 28mm diameter tamper proof screw caps.

6.6 Special precautions for the disposal of unused veterinary medicinal products or waste materials derived from the use of such products

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

7 MARKETING AUTHORISATION HOLDER

Norbrook Laboratories (Ireland) Limited
Rossmore Industrial Estate
Monaghan
Ireland

8 MARKETING AUTHORISATION NUMBER(S)

VPA22664/023/001

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 01 October 1989
Date of last renewal: 30 September 2009

10 DATE OF REVISION OF THE TEXT

January 2019