

## **SUMMARY OF PRODUCT CHARACTERISTICS**

### **1. NAME OF THE MEDICINAL PRODUCT**

Colipan Tablet 10mg

### **2. QUALITATIVE AND QUANTITATIVE COMPOSITION OF COLIPAN TABLET**

Each coated tablet contains 10mg Hyoscine- N- Butylbromide.

### **3. PHARMACEUTICAL FORM**

COLIPAN TABLET: White, round-coated tablet.

### **4. CLINICAL PARTICULARS**

#### **4.1 Therapeutic indications**

Colipan Tablet is indicated for the relief of spasms of the genitourinary tract or gastrointestinal tract and for the symptomatic relief of irritable bowel syndrome.

#### **4.2 Posology and Method of Administration**

Colipan Tablet is for oral administration only.

Adults: 2 tablets four times daily. For the symptomatic relief of irritable bowel syndrome, the recommended starting dose is 1 tablet three times daily, this can be increased up to 2 tablets four times daily if necessary.

Children 6 - 12 years: 1 tablet three times daily.

No specific information on the use of this product in the elderly is available. Clinical trials have included patients over 65 years and no adverse reactions specific to this age group have been reported.

Colipan Tablets should not be taken on a continuous daily basis or for extended periods without investigating the cause of abdominal pain.

#### **4.3 Contraindications**

Colipan Tablet is contraindicated in:

- Patients who have demonstrated prior hypersensitivity to Hyoscine-N-Butylbromide or any other component of the product.
- Myasthenia gravis.
- Mechanical stenosis in the gastrointestinal tract.
- Paralytical or obstructive ileus.
- Megacolon.
- Narrow-angle glaucoma.

#### **4.4 Special warnings and precautions for use.**

In case severe, unexplained abdominal pain persists or worsens, or occurs together with symptoms like fever, nausea, vomiting, changes in bowel movements, abdominal tenderness, decreased blood pressure, fainting, or blood in stool, medical advice should immediately be sought.

Colipan tablet should be used with caution in conditions characterised by tachycardia such as thyrotoxicosis, cardiac insufficiency or failure and in cardiac surgery where it may further accelerate the heart rate.

Due to the risk of anticholinergic complications, caution should be used in patients susceptible to intestinal or urinary outlet obstructions.

Because of the possibility that anticholinergics may reduce sweating, Colipan tablets should be administered with caution to patients with pyrexia. Elevation of intraocular pressure may be produced by the administration of anticholinergic agents such as Colipan tablet in patients with undiagnosed and therefore untreated narrow-angle glaucoma. Therefore, patients should seek urgent ophthalmological advice in case they should develop a painful, red eye with loss of vision whilst or after taking the Colipan tablet.

#### 4.5 **Interaction with other medicinal products and other forms of interaction**

The anticholinergic effect of drugs such as tri- and tetracyclic antidepressants, antihistamines, quinidine, amantadine, antipsychotics (e.g. butyrophenones, phenothiazines), disopyramide and other anticholinergics (e.g. tiotropium, ipratropium, atropine-like compounds) may be intensified by Colipan tablet.

Concomitant treatment with dopamine antagonists such as metoclopramide may result in diminution of the effects of both drugs on the gastrointestinal tract.

The tachycardic effects of beta-adrenergic agents may be enhanced by Colipan tablet.

#### 4.6 **Fertility, Pregnancy and Lactation**

##### **Pregnancy**

There are limited data from the use of hyoscine-N-butylbromide in pregnant women. Animal studies are insufficient with respect to reproductive toxicity (see section 5.3). As a precautionary measure, Colipan tablet is not recommended during pregnancy.

##### **Lactation**

There is insufficient information on the excretion of hyoscine-N-butylbromide and its metabolites in human milk. A risk to the breastfeeding child cannot be excluded. Use of Colipan tablet during breastfeeding is not recommended.

##### **Fertility**

No studies on the effects on human fertility have been conducted.

#### 4.7 **Effects on ability to Drive and Use Machines**

No studies on the effects on the ability to drive and use machines have been performed. Because of possible visual accommodation disturbances patients should not drive or operate machinery if affected.

#### 4.8 **Undesirable effects**

Many of the listed undesirable effects can be assigned to the anticholinergic properties of Hyoscine-N-bromide.

Adverse events have been ranked under headings of frequency using the following convention:

Very common ( $\geq 1/10$ ); common ( $\geq 1/100, < 1/10$ ); uncommon ( $\geq 1/1000, < 1/100$ ); rare ( $\geq 1/10000, < 1/1000$ ); very rare ( $< 1/10000$ ); not known – cannot be estimated from the available data.

Immune system disorders

Uncommon: skin reactions (e.g., urticaria, pruritus)

Not known\*: anaphylactic shock, anaphylactic reactions, dyspnoea, rash, erythema, other hypersensitivities.

Cardiac disorders;

Uncommon: tachycardia

Gastrointestinal disorders:

Uncommon: dry mouth

Skin and subcutaneous tissue disorders;

Uncommon: dyshidrosis;

Renal and urinary disorders;

Rare: urinary retention.

\* This adverse reaction has been observed in post-marketing experience. With 95% certainty, the frequency category is not greater than uncommon (3/1,368), but might be lower. A precise frequency estimation is not possible as the adverse drug reaction did not occur in a clinical trial database of 1,368 patients.

Reporting of suspected adverse reactions

Reporting suspected adverse reaction 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 the Yellow Card Scheme at: [www.mhra.gov.uk/yellowcard](http://www.mhra.gov.uk/yellowcard).

#### 4.9 Overdose

##### **Symptoms:**

Serious signs of poisoning following acute overdosage have not been observed in man. In the case of overdosage, anticholinergic effects such as urinary retention, dry mouth, reddening of the skin, tachycardia, inhibition of gastrointestinal motility and transient visual disturbances may occur, and Cheynes-Stokes respiration has been reported.

##### **Therapy:**

In the case of oral poisoning, gastric lavage with medicinal charcoal should be followed by magnesium sulfate (15%). Symptoms of Buscopan overdosage respond to parasympathomimetics. For patients with glaucoma, pilocarpine should be given locally. Cardiovascular complications should be treated according to usual therapeutic principles. In case of respiratory paralysis, intubation and artificial respiration should be considered. Catheterisation may be required for urinary retention.

In addition, appropriate supportive measures should be administered as required.

### 5 PHARMACOLOGICAL PROPERTIES

#### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antispasmodic

ATC code: A03BB01

Hyoscine-N- Butylbromide exerts a spasmolytic action on the smooth muscle of the gastrointestinal, biliary and genito-urinary tracts. As a quaternary ammonium derivative, Hyoscine-N- Butylbromide does not enter the central nervous system. Therefore, anticholinergic side effects at the central nervous system do not occur. Peripheral anticholinergic action results from a ganglion-blocking action within the visceral wall as well as from an anti-muscarinic activity.

#### 5.2 Pharmacokinetic properties Absorption:

As a quaternary ammonium compound, Hyoscine-N-butylbromide is highly polar and hence only partially absorbed following oral (8%) or rectal (3%) administration. After oral administration of single doses of Hyoscine-N-Butylbromide in the range of 20 to

400 mg, mean peak plasma concentrations between 0.11 ng/mL and 2.04 ng/mL were found at approximately 2 hours. In the same dose range, the observed mean AUC 0-tz-values varied from 0.37 to 10.7 ng h/mL. The median absolute bioavailabilities of different dosage forms, i.e. coated tablets, suppositories and oral solution, containing 100 mg of Hyoscine-N- Butylbromide each were found to be less than 1%.

#### **Distribution:**

Because of its high affinity for muscarinic receptors and nicotinic receptors, Hyoscine-N-Butylbromide is mainly distributed on muscle cells of the abdominal and pelvic area as well as in the intramural ganglia of the abdominal organs. Plasma protein binding (albumin) of Hyoscine-N- Butylbromide is approximately 4.4%. Animal studies demonstrate that Hyoscine-N- Butylbromide does not pass the blood-brain barrier, but no clinical data to this effect is available. Hyoscine-N-Butylbromide (1 mM) has been observed to interact with the choline transport (1.4 nM) in epithelial cells of human placenta in vitro.

#### **Metabolism and elimination:**

Following oral administration of single doses in the range of 100 to 400 mg, the terminal elimination half-lives ranged from 6.2 to 10.6 hours. The main metabolic pathway is the hydrolytic cleavage of the ester bond. Orally administered Hyoscine-N- Butylbromide is excreted in the faeces and in the urine. Studies in man show that 2 to 5% of radioactive doses are eliminated renally after oral, and 0.7 to 1.6% after rectal administration. Approximately 90% of recovered radioactivity can be found in the faeces after oral administration. The urinary excretion of Hyoscine-N- Butylbromide is less than 0.1% of the dose. The mean apparent oral clearances after oral doses of 100 to 400 mg range from 881 to 1420 L/min, whereas the corresponding volumes of distribution for the same range vary from 6.13 to 11.3 x 10<sup>5</sup> L, probably due to very low systemic availability. The metabolites excreted via the renal route bind poorly to the muscarinic receptors and are therefore not considered to contribute to the effect of the Hyoscine-N- Butylbromide.

### **5.3 Preclinical safety data**

In limited reproductive toxicity studies Hyoscine-N- Butylbromide showed no evidence of teratogenicity in rats at 200 mg/kg in the diet or in rabbits at 200 mg/kg by oral gavage or 50 mg/kg by subcutaneous injection. Fertility in the rat was not impaired at doses of up to 200 mg/kg in the diet.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

- Sorbic Acid
- Calcium Hydrogen Phosphate
- Dried Maize Starch
- Soluble Starch
- Colloidal Silicate
- Tartaric Acid
- Stearic Acid
- COATING MATERIALS: PVPK30, Sucrose, Talc powder, Acacia, Titanium dioxide, Methyl and Propyl parabens, Polyethylene glycol Carnauba wax, White Beeswax.

**6.2 Incompatibilities**

None stated.

**6.3 Shelf life**

Unopen 5 years.

**6.4 Special precautions for storage**

Colipan tablets should be protected from light and stored in a dry place below 30°C.

**6.5 Nature and contents of container**

10 strips in a carton.

Not all pack sizes may be marketed.

**6.6 Special precautions for disposal**

None stated.

**7 MARKETING AUTHORISATION HOLDER**

SYGEN PHARMACEUTICALS LIMITED  
KM. 38, LAGOS ABEEKUTA EXPRESSWAY  
SANGO OTA  
OGUN STATE, NIGERIA

**8 MARKETING AUTHORISATION NUMBER(S)**

NAFDAC- 04-4045

**9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

04/04/2018

**10 DATE OF REVISION OF THE TEXT**

01/05/2023