

PLO GEL

Application in Pharmacy Compounding

Compilation 2011

Content

1. Lidocaine, Benzocaine & Tetracaine
2. Lorazepam, Diphenhydramine, Haloperidol & Metoclopramide (ABHR)
3. Capsaicin & Ketamine
4. Ondansetron
5. Ketoprofen & Loperamide
6. Cimetidine, Ibuprofen & Deoxy-D-Glucose

Lidocaine, Benzocaine & Tetracaine

Topical anesthetic and analgesic for superficial surgical procedures and laser therapy

Formulation

Lidocaine	10 g
Benzocaine	20 g
Tetracaine	4 g
Butylhydroxytoluene	0.1 g
Polysorbate 80	q.s
Organic Phase	13 ml
Aqueous Phase	52 ml

1. Grind Lidocaine, Benzocaine and Tetracaine powders to fine.
2. Add Polysorbate 80 to dissolve Butylhydroxytoluene.
3. Incorporate the powders into the mixture and mix well.
4. Prepare PLO gel by triturating Organic and Aqueous Phases.
5. Add PLO gel as base to the mixture and mix well.
6. Package and label.

Note: Butylhydroxytoluene is used as an antioxidant.

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Lorazepam, Diphenhydramine, Haloperidol & Metoclopramide (ABHR)

Treatment of refractory nausea and vomiting

Formulation

Lorazepam	0.1 g
Diphenhydramine HCl	2.4 g
Haloperidol	0.1 g
Metoclopramide HCl	2.4 g
Propylene glycol	q.s
Organic Phase	18 ml
Aqueous Phase q.s	100 g

1. Grind Lorazepam, Diphenhydramine HCl, Haloperidol and Metoclopramide HCl powders to fine.
2. Wet the powders with sufficient propylene glycol.
3. Add Organic Phase into the mixture and mix well.
4. Add Sufficient Aqueous Phase to 100 g and mix until an uniform gel is formed.
5. Package and label.

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Capsaicin & Ketamine

Treatment of moderate and severe pain

Formulation

Capsaicin	0.05 g
Ketamine HCl	2 g
Ethanol 95%	q.s g
Organic Phase	20 ml
Aqueous Phase q.s	100 g

1. Grind Capsaicin and Ketamine HCl powders to fine.
2. Wet the powders with sufficient Ethanol to form a smooth paste.
3. Add Organic Phase into the mixture and mix well.
4. Add Sufficient Aqueous Phase to 100 g and mix until an uniform gel is formed.
5. Package and label.

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Ondansetron

Prevention and treatment of post-operative nausea and vomiting

Formulation

Ondansetron HCl	0.8 g
Water	q.s g
Aqueous Phase	75 ml
Organic Phase	20 ml

1. Grind ndansetronl powders to fine.
2. Wet the powders with sufficient water to form a smooth paste.
3. Add Aqueous Phase into the mixture and mix well.
4. Add Organic Phase and mix until an uniform gel is formed.
5. Package and label.

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Ketoprofen & Loperamide

Treatment of postherpetic & shingles neuralgia

Formulation

Ketoprofen	10 g
Loperamide	7.5 g
Propylene Glycol	q.s g
Organic Phase	15 ml
Aqueous Phase q.s	100 g

1. Grind Ketoprofen and Loperamide powders to fine.
2. Wet the powders with sufficient propylene glycol.
3. Add Organic Phase into the mixture and mix well.
4. Add Sufficient Aqueous Phase to 100 g and mix until an uniform gel is formed.
5. Package and label.

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Cimetidine, Ibuprofen & Deoxy-D-Glucose

Treatment of common warts

Formulation

Cimetidine	10 g
Ibuprofen	2 g
Deoxy-D-Glucose	0.5 g
Propylene Glycol	q.s
Aqueous Phase	60 ml
Organic Phase	15 ml

1. Grind Cimetidine, Ibuprofen and Deoxy-D-Glucose powders to fine.
2. Wet the powders with sufficient propylene glycol to form a smooth paste.
3. Add Aqueous Phase into the mixture and mix well.
4. Add Organic Phase and mix until an uniform gel is formed.
5. Package and label.

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