



Laboratory distributing raw materials for the pharmaceutical and cosmetics industries.

TECHNICAL DATA SHEET

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## GUINAMA PLO GEL

### Base for Compounding

<b>1. General Information</b>	<b>Name:</b> GUINAMA PLO GEL <b>Bulk code:</b> 10315	
<b>2. Description</b>	Transdermal gel cream ready for use as an alternative to traditionally made PLO gels. Contains Transcutol P® and Pluronic® that enhance penetration and increase absorption of the active ingredient, emollients to improve its feel and spreadability, and emulsifiers that prevent the PLO from thinning at low temperatures. The active ingredients can be added directly, or sprayed or dispersed in a suitable solvent. Can be used in analgesics (to include pain relief substances), sports medicine and veterinary medicine.	
<b>3. Composition</b>	AQUA, POLOXAMER 407, ETHOXYDIGLYCOL, ISOPROPYL PALMITATE, LECITHIN, ARGILLA, HYDROXYETHYL ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER, PHENOXYETHANOL, POLYGLYCERYL-3 DIISOSTEARATE, SQUALANE, GLYCERYL STEARATE, PEG-100 STEARATE, POLYSORBATE 60, ETHYLHEXYLGLYCERIN, SORBITAN ISOSTEARATE	
<b>4. Physicochemical Characteristics</b>	Physical characteristics	Transdermal O/W Gel Cream
	pH	5.0 - 8.0
	pH range	3.0 - 11.0
	Density	0.9 - 1.1 g/ml
	Viscosity	250,000 - 300,000 cps
	Penetration capability	Very good
	Load capacity (hydro - lipo)	Hydrophilic 10% - Lipophilic 20%
	Can be replaced with/ Behaviour like	PLO gels
<b>5. Properties/Uses</b>	<ul style="list-style-type: none"> <li>▪ Compounding base.</li> <li>▪ Can include acidic and alkaline active ingredients without breaking.</li> <li>▪ More cosmetic and more spreadable finish than a usual PLO gel.</li> <li>▪ Compatible with lipophilic and hydrophilic APIs.</li> <li>▪ Can incorporate ionic and non-ionic active ingredients.</li> </ul>	

	<ul style="list-style-type: none"> <li>▪ Active ingredients can be added directly to the Guinama PLO Gel.</li> <li>▪ If desired, active ingredients can be pre-dispersed in water, glycerin, PEG, alcohol or isopropyl palmitate to form a solution/paste before adding them to the Guinama PLO Gel.</li> <li>▪ Stable at low temperatures.</li> <li>▪ Contains skin penetration enhancers.</li> <li>▪ Base prepared for use; moisturising agents not required.</li> <li>▪ Given its composition, the drug is more efficiently absorbed.</li> <li>▪ Thanks to transdermal administration of active ingredients in veterinary medicine, treatment compliance is increased, especially in felines.</li> <li>▪ Reduction in the first-pass hepatic effect, reducing adverse reactions to certain medicines.</li> <li>▪ Rotating the area of application for the mix is recommended.</li> <li>▪ Allows the concentration of the active ingredient to be increased in the place of pain to be treated in palliative treatments for pain.</li> <li>▪ Has undergone stability tests.</li> </ul>
<b>6. Recommended packaging</b>	SAMIX SINGLE-DOSE packaging, aluminium tube with dispensing syringe, and pump dispensers, like airless packaging ones that control the dose dispensed in each application.
<b>7. Toxicity or precautions for use</b>	For topical external use. Do not apply to wounds or the mucosa. Do not swallow. For more detailed information, see the safety data sheet.
<b>8. Storage</b>	Store at room temperature ( $25\pm 2^{\circ}\text{C}$ ) in a cool, dry place away from sunlight, in a tightly closed container.
<b>9. Incompatibilities</b>	Compatible with moderate levels of active pharmaceutical ingredients.
<b>10. Bibliography</b>	<ul style="list-style-type: none"> <li>▪ Compounding Today. Formula 826</li> <li>▪ Manual del paliativista. Jose Luis Rodriguez Dominguez. Page 40.</li> </ul>