

Ketoprofen Gel, 2.5% with Carbopol® Ultrez 10 NF Polymer

This anti-inflammatory gel features Carbopol® Ultrez 10 NF polymer which imparts viscosity to the formulation. Carbopol® Ultrez 10 NF polymer provides greater versatility in formulating and processing than traditional Carbopol® polymers because it is easy to disperse in water.

	Ingredient Name	%w/w
A	1. Carbopol® Ultrez 10 NF Polymer	1.50
	2. Disodium EDTA	0.05
	3. Deionized Water	63.00
B	4. Ketoprofen, USP	2.50
	5. Ethanol	30.00
C	6. Triethanolamine	q.s. to pH 5.5
	7. Deionized Water	q.s. to 100.00

Procedure

- Dissolve disodium EDTA in deionized water.
- Add Carbopol® Ultrez 10 NF polymer to the above salt solution and allow it to hydrate. Next, mix the dispersion at a low agitation rate (500 rpm) (Part A).
{Refer to [TDS-225: Carbopol® Ultrez 10 Polymer](#)}
- Dissolve ketoprofen in ethanol. Add the ethanolic phase to the Part A ingredients (Part B).
- Adjust the above mixture slowly with triethanolamine to pH 5.5 and add the remaining deionized water. Mix thoroughly to obtain a clear, viscous gel (Part C).

Product Properties

Appearance	Translucent gel
pH	5.5
Viscosity (cP)**	24,033

**Brookfield RVT @ 20 rpm, Spindle #6, measured at 24 hours

Stability

- Passed 3 freeze/thaw cycles
- Stable for a minimum of 6 months when stored under the following ICH conditions:
 - Long term (25 ± 2°C / 60 ± 5% relative humidity)
 - Accelerated (40 ± 2°C / 75 ± 5% relative humidity)

Edition: June 1, 2011
Previous Edition: May 1, 2008

For more information or to request product samples, please visit www.pharma.lubrizon.com or contact your nearest Lubrizon Advanced Materials location.

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