



## Retinol C50

**Description:** Retinol C50 is a California Proposition 65 compliant source of anti-aging retinol for use in cosmetic formulations. Retinol is the most efficacious form of vitamin A for cosmetic use. This retinol ingredient is free of BHA (butylated hydroxyanisole) which allows formulations made with this ingredient to avoid a Proposition 65 warning label. Other retinol sources often contain BHA and therefore require a warning statement on products sold in the state of California.

### Typical Properties

INCI Name:	Retinol, Polysorbate 20 and BHT
Appearance:	Off-white to pale yellow oily, viscous liquid
Retinol concentration:	50% ± 5%

### Packaging:

Aluminum bottles

### Standard packouts:

1.0 kg  
5.0 kg

### Formulation Guidelines

Retinol should always be handled under yellow light to prevent isomerization and exposure to oxygen should be minimized by sparging the formulation with nitrogen and adding the C50 retinol during the cool down phase of making an emulsion. Once the original package has been opened, use all of the retinol or purge the bottle with inert gas (oxygen free nitrogen or argon) and then reseal the bottle.





## Retinol C50

**Description:** Retinol Stabilized with Butylated Hydroxy Toluene (BHT)

**INCI Name:** Retinol, Polysorbate 20 and BHT

INCI Name	CAS Number	EINECS Number	Origin
Retinol	68-26-8	200-683-7	Petroleum sources

**Preservatives:** None

**Stabilizers:** BHT

### Specifications

Test Description	Acceptance Criteria	Method
Appearance	Oily viscous liquid	Visual
Identification	Exhibits maxima between 324 and 326 nm Develops blue color with a antimony tri chloride solution in chloroform	UV Visual
Solubility	Dispersible in water	Visual
Absorption in IPA	324 - 327 nm	UV
Assay	45.0 - 55.0 %	UV
BHT Content	40.0 - 55.0 mg/g	HPLC
Microbiological	TPC: <100 CFU/g Yeast + Mold: <10 CFU/g No specified microorganisms present	USP Microbial Limits
Residual Solvents	<3000 ppm Methanol <5000 ppm n-Pentane	GC

All HBS test methods are available to customers upon request

