

UVA/UVB PROTECTION BY INGREDIENT

| UV TYPE | WAVELENGTH | BLOCKERS / ABSORBERS * | BLOCK UVA and UVB (PHYSICAL BLOCKERS)* |
|------------|--|---|--|
| UVA | 320-400 nanometers (Longest UV wavelength; penetrates deepest layers of skin; plays key role in aging; can lead to skin cancer) | Avobenzone (Parsol 1789), zinc oxide, and ecamsule (mexoryl) | Octocrylene, titanium dioxide and zinc oxide |
| UVB | 290-320 nanometers (Mid-range of UV; responsible for burning, tanning, acceleration of aging; plays key role in development of skin cancer) | Padimate O (Octyldimethyl PABA), homosalate, octisalate, and octinoxate | |

* Active Ingredients listed are those approved by the U.S. Food and Drug Administration for this purpose.