

ABSTRACT

The present application relates to the field of physiotherapy light source technology. Embodiments of the present application provide a red phosphor composition, a red phosphor film, and a red LED light source. The red phosphor composition includes: a first phosphor, a second phosphor, and a third phosphor. The first phosphor includes: a phosphor A, a phosphor B, and a phosphor D1 with different emission wavelengths. The second phosphor includes: a phosphor C, a phosphor D2, and a phosphor E1 with different emission wavelengths. The third phosphor includes: a phosphor D3, a phosphor E2, and a phosphor F with different emission wavelengths. In the spectral graph of the red light emitted by the red phosphor composition of this application, the peak exhibits a gentle profile. Within the wavelength range before and after the peak, the optical power of the red light remains close to that of the peak, ensuring consistent therapeutic effects across this broad band, thereby enhancing the overall therapeutic efficacy.

Fig.7