ULTRA-VIOLET PRODUCTS

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Application Bulletin
UVP-AB-118

USE OF ULTRAVIOLET LIGHT IN IDENTIFYING BLOOD DONORS

APPLICATION: Detecting frequent blood donors

WAVELENGTH: Longwave (365nm) Ultraviolet

FIELD OF USE: Clinics, Blood Donor Centers

BACKGROUND: Donors who give blood too frequently could possibly become ill from too much blood loss. A method of identifying frequent donors was found with the use of ultraviolet light and invisible UV fluorescing inks. To deter anyone from donating blood at various centers, each center can use the procedure below. Each donor center could use a different finger to reference their center or a different color of fluorescing ink.

PROCEDURE: With a cotton tip, apply UV fluorescing ink to the underside of the fingernail. With the ultraviolet light, shine the lamp onto the finger and the ink will fluoresce under the ultraviolet light. Invisible UV fluorescing ink normally lasts several days before disappearing. Contact UVP or other ink manufacturers for information on inks.

PRIMARY ADVANTAGES OF THI S METHOD: Fluorescing inks with ultraviolet light is a reliable and safe method for identifying repeat blood donors.

RECOMMENDED LAMP S & INKS: The UVL-4 is a mini handheld lamp which is small enough to fit into a pocket. This lamp operates on 4AA batteries. Another option is the UVL-23S which combines a longwave lamp and stand and operates on 115V.

RI-10 and A-800 colorless inks fluoresce blue under the ultraviolet light and the RI-20 and A-801 inks (both with a normal color of faint yellow) fluoresce green under an ultraviolet lamp.