

## Seven different types of immersion oils for microscopical analysis

Immersion oils are essential for routine laboratory work, especially in hematology, cytology and microbiology. They are commonly used for high magnifications in order to secure high resolution and a clear image. There are several types of immersion oils that differ according to viscosity and certain properties required by different microscopy techniques. They all have a common refractive index of 1.5150, equal to the refractive index of glass.

## BioGnost's Immersion oils properties

| PRODUCT NAME                        | VISCOSITY<br>@ 23°C (cSt, mPa) | COMBINING WITH<br>OTHER TYPES OF OIL         | TYPE OF MICROSCOPY        |
|-------------------------------------|--------------------------------|--|---------------------------|
| IMMERSION OIL                       | 800-1300                       | Immersion oil type A<br>Immersion oil type C | light                     |
| IMMERSION OIL TYPE A                | 100-300                        | Immersion oil<br>Immersion oil type C        | light                     |
| IMMERSION OIL TYPE C                | 1500-2200                      | Immersion oil<br>Immersion oil type A        | light                     |
| IMMERSION OIL TYPE FF               | 170                            | -  | fluorescent               |
| IMMERSION OIL TYPE 37*              | 1250**                         | -  | light, for use at 37°C    |
| IMMERSION OIL, TROPICAL<br>GRADE*** | 1000-1500****                  | -  | light, for use at 27-29°C |

\* refractive index  $n_D$  at 37°C = 1.5150

\*\* viscosity at 37°C

\*\*\* refractive index  $n_D$  at tropical temperatures = 1.515

\*\*\*\* viscosity at 28°C

## Immersion oil

**Immersion oil**  
Immersion oil for microscopy analysis with optimal viscosity of 800-1300 cSt.

|          |         |
|----------|---------|
| 10x10 mL | IU-1010 |
| 30 mL    | IU-30   |
| 100 mL   | IU-100  |
| 250 mL   | IU-250  |
| 500 mL   | IU-500  |



Immersion oil for microscopy analysis with low viscosity of 100-300 cSt.

|          |          |
|----------|----------|
| 10x10 mL | IUA-1010 |
| 30 mL    | IUA-30   |
| 100 mL   | IUA-100  |
| 250 mL   | IUA-250  |
| 500 mL   | IUA-500  |

