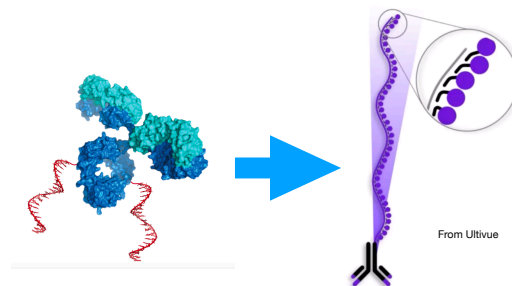


# Kit B

## — Signal Amplification

### 1. Introduction:

The signal amplification kit are intended for extension of DNA barcode, so that there are more fluorescent probes can be hybridized.



### 2. Solution and Reagents: (Included)

	Kit Component	Volume
1	Amplification Enzyme A	80
2	Amplification Buffer A	450
3	Amplification Enzyme B	55
4	Amplification Buffer B	450

**Note:** This kit contains sufficient materials for the amplification of **10 slides (150  $\mu$ L / slide)**.  
Store at **-20°C**.

### 3. Solution Preparation

#### 1. Amplification Solution A

Amplification Enzyme A (20 x) / $\mu$ L	Amplification Buffer A (10 x) / $\mu$ L	Nuclease-free Water / $\mu$ L	→	Amplification Solution A / $\mu$ L
7.5	15	127.5		150

#### 2. Amplification Solution B

Amplification Enzyme B (30 x) / $\mu$ L	Amplification Buffer B (10 x) / $\mu$ L	Nuclease-free Water / $\mu$ L	→	Amplification Solution B / $\mu$ L
5	15	130		150

### 4. Protocol for Amplification

1. Incubate slides in 150 $\mu$ L **Amplification Solution A** for 60 min at 43°C.
2. Wash the slides two times in TBST, each for 30 sec, at RT.
3. Incubate slides in 150 $\mu$ L **Amplification Solution B** for 100 min at 37°C.
4. Wash the slides two times in TBST, each for 30 sec, at RT.

(TBST : Tris Buffered Saline with Tween 20)