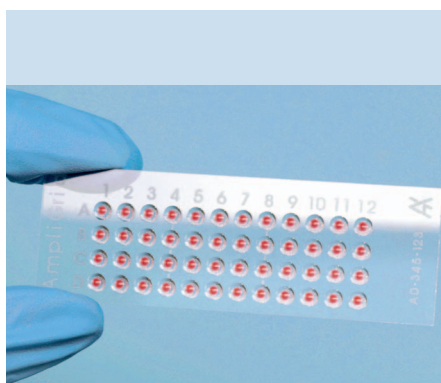


## ACTIVATED MICROLITER REACTION SLIDE



AmpliGrid AG480E slide

### Features

- Flat glass slide with 48 chemically structured reaction sites
- Activated reaction sites to immobilize nucleic acids or proteins
- Replaces surface-coated microtiter plates (MTP) for heterogeneous assays
- Basis for highly integrated diagnostic chip, e.g., lysis, amplification and detection via hybridization to capture probes
- Fully automation compatible

### Applications

#### Diagnostics

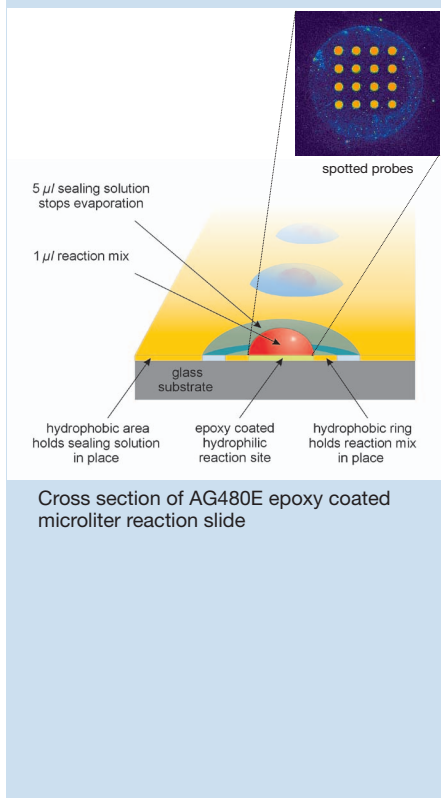
- Amplification-based tests (e.g., infectious disease, oncology)
- ELISA: integrated immunoassay reaction plus detection

#### Integrated custom chips

- E.g., environmental microbiology

### Advantages

- **Economic**  
25x reagent saving
- **Sensitive**  
2-10x more sensitive than same system in MTP
- **Robust**  
Highly resistant to airborne contamination
- **Easy to automate**  
Compatible with state of the art pipetting robots
- **Integration of assay and detection**



## Example: 3-step automated amplification

### 1. Apply template and reaction-mix

- Pipette 1  $\mu$ L template, let dry
- Pipette 1  $\mu$ L reaction mix
- Pipette 5  $\mu$ L sealing solution

### 2. Thermal cycling

- AmpliSpeed ASC 200D/400D: Advanced temperature management for glass slides
- High Speed: Effective heating / cooling rates  $> 3$  K/s
- Individual programming with personal SD cards

### 3. Wash

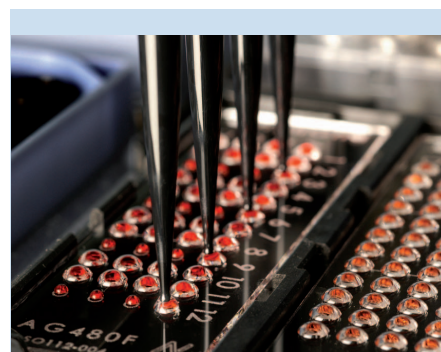
- Automated slide wash in Advalytix AdvaWash station

### 4. Scan

- Fluorescence scan signal of 16 identical oligo probes spotted per reaction site
- Multiplex amplification and matched detection probes possible
- CV: 5-10 %
- Very high discrimination of matches

## Order Information

Ref.-No	Product	Description
OAX04509	AmpliGrid AG480E	Epoxy coated microliter reaction slide (5 pcs./pck.), 48 reaction sites each, incl. 5x500 $\mu$ L Sealing Solution
OAX04511	AmpliGrid AG480E	Epoxy coated microliter reaction slide (25 pcs./pck.), 48 reaction sites each, incl. 25x500 $\mu$ L Sealing Solution
OAX05107	AdvaWash AW400	AdvaWash AW400: universal slide washing station for 4 slides incl. 2 AdvaTubes
OAX05108	AdvaWash AW800	AdvaWash AW800: universal slide washing station for 8 slides incl. 4 AdvaTubes
OAX04101	AmpliSpeed ASC100D	AmpliSpeed ASC100D: AmpliSpeed one bay slide cyler instrument with display unit
OAX04102	AmpliSpeed ASC200D	AmpliSpeed ASC200D: AmpliSpeed two bay slide cyler instrument with display unit
OAX04103	AmpliSpeed ASC400D	AmpliSpeed ASC400D: AmpliSpeed four bay slide cyler instrument with display unit



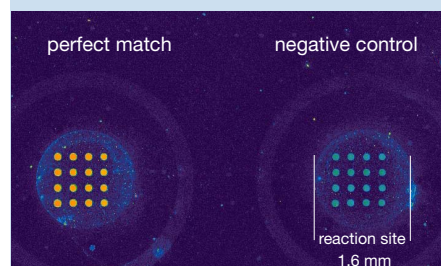
1. Automatically application of reaction mix



2. Thermal cycling on Advalytix slide cyler



3. Washing with AdvaWash station



4. Fluorescence scanning