

"Good, Bad or just different?"

BioRad

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> BBTS Annual Conference 2016 21st - 23rd September



Disclaimer

- This presentation is based on my opinions and observations
- I have raised a number of the 'problems' with BioRad previously
- My aim is to give a review of the BioRad technology not to promote any one system over another



Background

- I have used the BioRad technology since 1999
- Used as front line technique since 2002
- Other technologies
 - Tubes
 - Solid phase technologies
 - Manual microplate
 - Capture
 - Column technologies
 - Biovue
 - Biorad

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BioRad Cards

- Card containing 6 microtubes
- Each microtube contains dextran acrylamide gel
- The gel can be left neutral or impregnated with reagents
- Multiple reagent cards available





The Good



- Easy to store
 - 18 to 25°C
- Robust
- Can be used manually or automated
- Widely used throughout the UK
- Reliable and repeatable

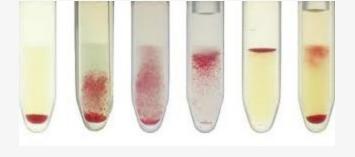




- Easy to use
- Does not require washing
- Easy to read
- Results stable
 - Reaction remain trapped

in gel





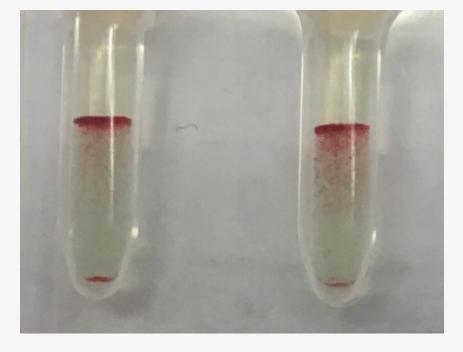




- Sensitive
- Extremely good for detecting mixed field reactions







- Interference
 - Fibrin
 - Cold agglutinins
 - Waldenströms macroglobulinaemia
 - BioRad dependent antibodies



The reagents

ww.bio-rad.com/en-uk/catego

199993

ation of D¹¹¹¹ by IAT a products for verification of D^{105,3k} by IAT

pen Profiles plete antigen profiling by ID-System Single Antigens Single-antigen testing products

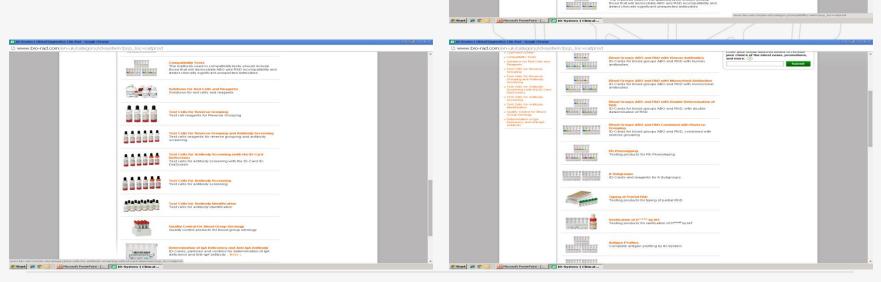
Grouping products for Reverse Grouping

Direct AHS Test (DAT) Testing products for Direct AHO Test (DAT) Antibody Screening ID-Cards for antibody screening and identific Antibody Identification ID-cards and reagents for antibody identification

Type and Screen ID-Cards for type and screen tests

he methods used in compatibility tests should include ose that will demostrate ABO and RhD incompatibility and

Huge range of different products available



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The good



- Wide range of panels available
- Ability to use panels produced by other suppliers
- The ability to resuspend any red cell and use in test





Bga positive cells!!

The bad





Automation

- IH-1000
 - High through put
 - Walk away
- IH-500
 - Compact bench top
- Gel Station
- Stand alone dispensers
- Stand alone readers









- High throughput
- Easy to use
- Good images
- Sensitivity of camera



The bad



- Shut down process
- Reactivity of software
- Sensitivity of camera
 - Over sensitive?
 - Under sensitive?



Conclusion

- Good?
- Bad?
- Just different

