

**Supplementary Figure S 1: Data representing the end-point titers of the samples tested in the neutralization antibody assay.**

**Table S 1: Human IFA and neutralization assay results**

Samples	IFA result	1:8	1:16	1:32
ZRUA0297/19	+	+	-	-
ZRUA0301/19	+	-	-	-
ZRUA0311/19	+	-	-	-
ZRUA0312/19	+	+	+	-
ZRUA0313/19	+	-	-	-
ZRUA0330/19	+	+	-	-
ZRUA0332/19	+	-	-	-
ZRUA0357/19	+	+	-	-
ZRUA0426/19	+	+	+	+
ZRUA0428/19	+	-	-	-
ZRUA0431/19	+	+	-	-
ZRUA0458/19	+	+	+	-
ZRUA0469/19	+	+	-	-
ZRUA0495/19	+	+	+	+
ZRUA0496/19	+	+	+	+
ZRUA0500/19	+	+	+	+
ZRUA0525/19	+	+	+	+
ZRUA0530/19	+	+	+	+
ZRUA0543/19	+	+	+	-
ZRUA0546/19	+	+	+	+
ZRUA0549/19	+	-	-	-
ZRUA0573/19	+	+	-	-
ZRUA0581/19	+	-	-	-
ZRUA0607/19	+	+	+	+
ZRUA0635/19	+	+	+	+
ZRUA0665/19	+	+	+	+
ZRUA0681/19	+	-	-	-
ZRUA1117/20	+	+	+	-
ZRUA1147/20	+	-	-	-
ZRUA1160/20	+	-	-	-
ZRUA1203/20	+	-	-	-
ZRUA1226/20	+	+	+	+
ZRUA1267/20	+	+	+	+
ZRUA1329/20	+	+	-	-
ZRUA1338/20	+	-	-	-
ZRUA1361/20	+	-	-	-
ZRUA1380/20	+	+	+	+
ZRUA1382/20	+	+	+	+
<b>Total</b>	<b>38</b>	<b>7/25</b>	<b>4/25</b>	<b>14/25</b>

**Table S 2:** Pathogens targeted by the array, indicating the detection limit for each target.

<b>Chipron LCD-array Pathogen</b>	<b>Assay sensitivity (plasmid copies)</b>
West Nile virus	1.46
Rift Valley Fever virus	1.43
Chikungunya virus	1.47
Sindbis virus	1.45
Rubella virus	14.0
Crimean Congo Haemorrhagic Fever virus	10.4
Cytomegalovirus	14.0
Measles virus	13.5
Mumps virus	13.9
Herpes simplex virus 1	1.37
Herpes simplex virus 2	1.36
Varicella Zoster virus	14.3
Rabies virus	1.36
Epstein–Barr virus	1.45
JC virus	14.5
Enterovirus	1.34
Dengue virus	1.44
<i>Rickettsia</i> spp.	1.47
<i>Borrelia burgdorferi/garinii</i>	14.1
<i>Brucella</i> spp.	13.6
Adenovirus	1.41
<i>Coxiella burnetti</i>	1.39
<i>Leptospira</i> spp.	1.39
<i>Mycobacterium tuberculosis</i>	13.9
<i>Ehrlichia</i> spp.	1.40
<i>Neisseria meningitidis</i>	1.47
<i>Plasmodium falciparum</i>	1.48
Flavivirus genus	1.41
Hepatitis-A virus	14.8
Hepatitis-B virus	1.42

# LCD-Array Work Flow

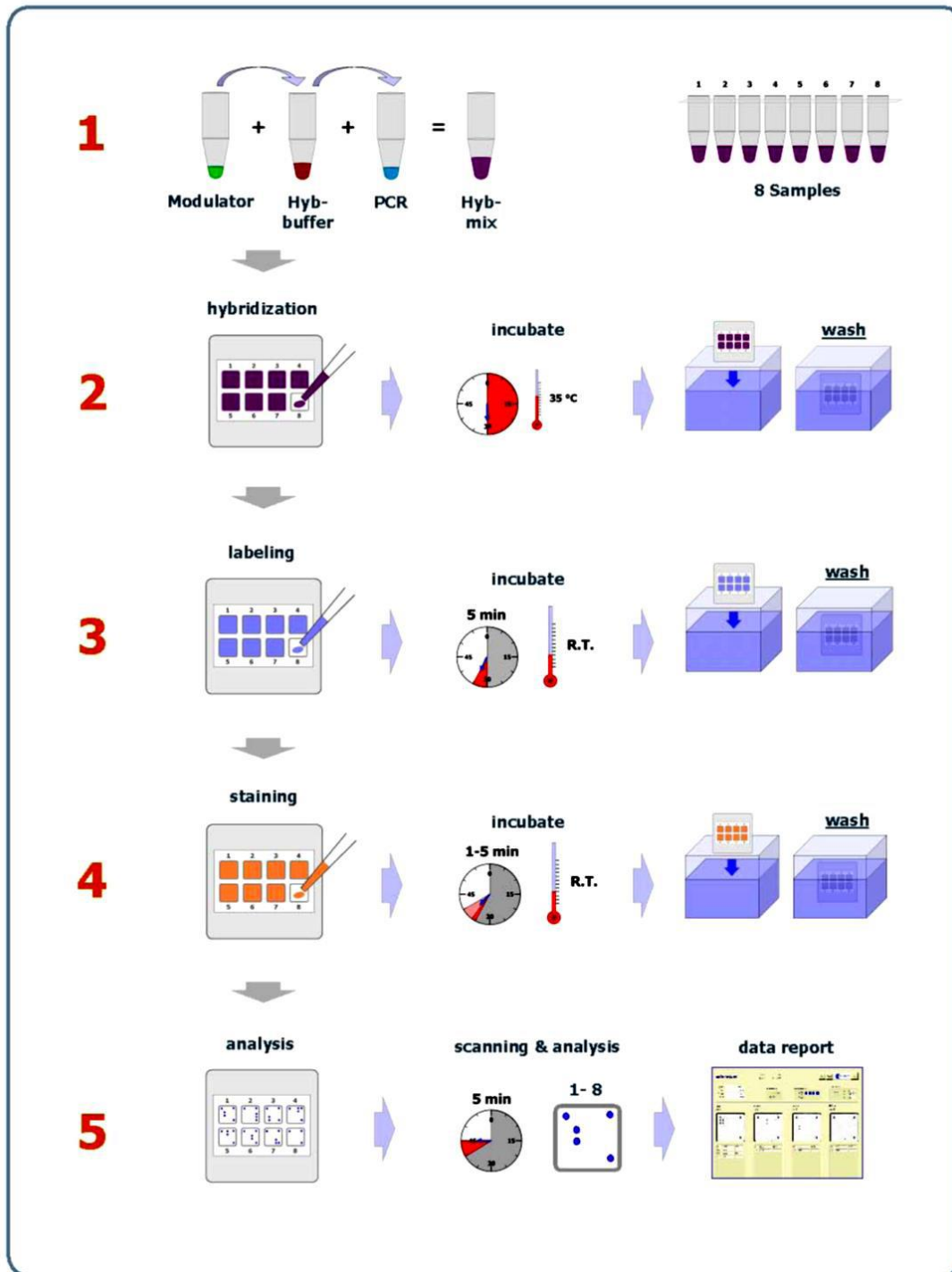


Figure S 2: LCD array workflow summarizing the multiplex PCR using the Chipron-LCD array