

Materials List for

Polymerase Chain Reaction and Dot-Blot Hybridization for *Leptospira* Detection in Water Samples

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Materials

Name	Company	Catalog Number	Comments
REAGENTS			
Purelink DNA extraction kit	Invitrogen	K182002	
Gotaq Flexi DNA Polimerase (End-Point PCR Taq polymerase kit)	Promega	M3001	
Whatman filter paper, grade 1,	Merk	WHA1001325	
Nylon Membranes, positively charged Roll 30cm x 3 m	Roche	11417240001	
Anti-Digoxigenin-AP, Fab fragments Sheep Polyclonal Primary-antibody	Roche	11093274910	
Medium Base EMJH	Difco	S1368JAA	
Leptospira Enrichment EMJH	Difco	BD 279510	
Blocking Reagent	Roche	11096176001	
CSPD ready to use Disodium 3-(4-methoxyspiro {1,2-dioxetane-3,2'-(5'-chloro) tricyclo [3.3.1.1 ^{3,7}] decan} ⁸ -4-yl) phenyl phosphate	Merk	11755633001	
Deoxyribonucleic acid from herring sperm	Sigma Aldrich	D3159	
Developer Carestream	Carestream Health Inc	GBX5158621	
Digoxigenin-11-ddUTP	Roche	11363905910	
EDTA, Disodium Salt (Dihydrate)	Promega	H5032	
Ficoll 400	Sigma Aldrich	F8016	
Fixer Carestream	Carestream Health Inc	GBX 5158605	
Lauryl sulfate Sodium Salt (Sodium dodecyl sulfate; SDS) C ₁₂ H ₂₅ O ₄ SNa	Sigma Aldrich	L5750	
N- Lauroylsarcosine sodium salt CH ₃ (CH ₂) ₁₀ CON(CH ₃) CH ₂ COONa	Sigma Aldrich	L-9150	It is an anionic surfactant

Polivinylypyrrolidone (PVP-40)	Sigma Aldrich	PVP40	
Polyethylene glycol Sorbitan monolaurate (Tween 20)	Sigma Aldrich	9005-64-5	
Sodium Chloride (NaCl)	Sigma Aldrich	7647-14-5	
Sodium dodecyl sulfate (SDS)	Sigma Aldrich	151-21-3	
Sodium hydroxide (NaOH)	Sigma Aldrich	1310-73-2	
Sodium phosphate dibasic (NaH ₂ PO ₄)	Sigma-Aldrich	7558-79-4	
Terminal transferase, recombinant	Roche	3289869103	
Tris hydrochloride (Tris HCl)	Sigma-Aldrich	1185-53-1	
SSPE 20X	Sigma-Aldrich	S2015-1L	It can be Home-made following Supplementary File 6
Primers	Sigma-Aldrich	On demand	Follow table 1
Probes	Sigma-Aldrich	On demand	Follow table 1
Equipment			
Nanodrop™ One Spectrophotometer	Thermo-Scientific	ND-ONE-W	
Refrigerated microcentrifuge Sigma 1-14K, suitable for centrifugation of 1.5 ml microcentrifuge tubes at 14,000 rpm	Sigma-Aldrich	1-14K	
Disinfected adjustable pipettes, range 2-20 µl, 20-200 µl	Gilson	SKU:F167360	
Disposable 1.5 ml microcentrifuge tubes (autoclaved)	Axygen	MCT-150-SP	
Disposable 600 µl microcentrifuge tubes (autoclaved)	Axygen	3208	
Disposable Pipette tips 1-10 µl	Axygen	T-300	
Disposable Pipette tips 1-200 µl	Axygen	TR-222-Y	
Dot-Blot apparatus Bio-Dot	BIORAD	1706545	
Portable Hergom Suction	Hergom	7E-A	
Scientific Light Box (Visible-light PH90-115V)	Hoefer	PH90-115V	
UV Crosslinker	Hoefer	UVC-500	
Thermo Hybaid PCR Express Thermocycler	Hybaid	HBPX110	
Radiographic cassette with IP Plate 14 X 17	Fuji		