



Detection of PCR-Products

Comparison of the Agarose Gel and Milenia® HybriDetect

		Agarose Gel	Milenia® HybriDetect
Time	Preparation	Preparation of Running Buffer (5 min) Weigh and Boil Agarose (5 min) Allow Agarose to solidify (app. 30 min) Overload with Gel Buffer (1 min) Load Gel (app. 5 min)	Label Strip Pipet Running Buffer (app. 5 min) Transfer Sample to Strip
	Incubation Time Visualization	Run Gel app. (1 h) Visualization (app. 10 min)	Run Strip (5 min) Visualization (app. 2 min)
Total Time		app. 1 to 2 h	app. 15 min
Additional Items Required	Instruments	Pipets, Scale, Microwave, Power Supply, Electrophoresis Chamber, Gel-Visualization Device, UV-Table	Pipets, Pen, Camera / Smart Phone
	Reagents	Running Buffer (TBE or TAE) Loading Buffer Ethidium bromide	Strips (MGHD1/MGHD2) Running Buffer (MGCB/MGCB2)
	Sources of Danger	Electric Power UV-Light Ethidium bromide	none
	Total	many	few
Price	Instruments	High Investment Costs	Low Investment Costs
	Primers	Unlabeled Primers → Low Costs	Labeled Primers → Higher Costs (app. + 30 € per Primer)
	Reagents	Agarose, Running Buffer, Loading Buffer, Molecular Weight Standard and Ethidium bromide or expensive DNA-Stainers (Ethidium bromide (Waste): Costs for Disposal) → app. 0,90 €/ small Gel (10 Slots)	app. 2,50 € per Strip
	Personnel Costs	Educated Personnel necessary High Investment in Time	No Educated Personnel necessary Low Investment in Time
Total Costs		low (if Sample Throughput is high)	low (if Sample Throughput is low)
Use	Experience / Education	necessary	not necessary
	Sensitivity	high	very high (app. 100 - 1000 x higher)
	Selektivität	good	very good (Distinguishes between PCR-Products of the same size!)
	Application	Many fold	restricted
	Distribution (Market)	high	low