

Materials List for:

Bacterial Gene Expression Analysis using Microarrays

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Materials

Name	Type	Company	Catalog Number	Comments
AA-dUTP		Sigma-Aldrich	A0410	5-(3-aminoallyl)-2'-deoxyuridine-5'-triphosphate
dNTP		Amersham	27-2035-01	100 mM dNTP Set PCR grade
Random Hexamer primers		Amersham	27-2166-01	3mg/mL
SuperScript III RT		Invitrogen	80800444	200U/ μ L
CyDye™		Amersham	RPN5661	Post-Labeling Reactive Dye Pack
QIAquick		Qiagen	28104	PCR Purification kit
1M K ₂ HPO ₄				
1M KH ₂ PO ₄				
1M KPO ₄	Buffer			To make a 1M Phosphate buffer (KPO ₄ , pH 8.5-8.7) combine:9.5 mL 1M K ₂ HPO ₄ and 0.5 ml 1M KH ₂ PO ₄
Phosphate wash buffer	Buffer			For 100 mL Phosphate wash buffer (5 mM KPO ₄ , pH 8.0, 80% EtOH) mix: 0.5 ml 1 M KPO ₄ pH 8.5 + 15.25 mL MilliQ water + 84.25 mL 95% ethanol. Wash buffer will be slightly cloudy.** IMPORTANT: Phosphate wash buffer should be prepared daily.
Phosphate elution buffer	Buffer			Diluting 1 M KPO ₄ , pH 8.5 to 4 mM with sterile water
Sodium Carbonate Buffer				(Na ₂ CO ₃): 0.5M, pH 9.0. Dissolve 4.2 g NaHCO ₃ in 80 mL of sterile water and adjust pH to 9.0 with 10 N NaOH; bring volume up to 100 mL with sterile water. To make a 50 mM solution for the dye coupling reaction dilute 1:10 with water.Note: Carbonate buffer changes composition over time; make it fresh every couple of weeks to a month.