

DYEING AND PAINTING WITH NATURE: THE CHEMISTRY OF COCHINEAL

DYEING TEXTILES WITH COCHINEAL

	Sample A	Sample B
Mordant	Alum	None
Dye	Cochineal	Cochineal

Materials	
Textile - Wool yarn	Lion Brand LB Collection® Pure Wool Yarn, 100%, undyed
Textile - Silk thread	Ready to Dye Silk yarn 100% Tussah silk, 2 ply lace weight, undyed
Textile - Cotton embroidery cloth	Michaels Solid white 100% cotton quilting fabric
Textile - Linen	Utrecht Unprimed Belgian 100% Linen Canvas Type 185
Alum	Kremer Pigments #64100 Potassium aluminum sulfate
Potash	Kremer Pigments #64040 Potassium carbonate

Bundle 1			
Alum A		Cochineal A+B	
Material	Amount (g)	Material	Amount (g)
textile	1.12	textile	1.93
alum	0.22	cochineal	0.24
water	56	water	120.63

Recipes adapted from Jo Kirby et al, *Natural Colorants for Dyeing and Lake Pigments: Practical Recipes and their Historical Sources* (Archetype, London, 2014)

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Bundle 2			
Alum A		Cochineal A+B	
Material	Amount (g)	Material	Amount (g)
textile	1.32	textile	2.05
alum	0.24	cochineal	0.26
water	66	water	128.35

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Textile - Linen	Utrecht Unprimed Belgian 100% Linen Canvas Type 185
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Potash	Kremer Pigments #64040 Potassium carbonate

Bundle 3			
Alum A		Cochineal A+B	
Material	Amount (g)	Material	Amount (g)
textile	1.25	textile	2
alum	0.25	cochineal	0.25
water	62.5	water	125

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Dye	Cochineal	Cochineal

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Textile - Cotton embroidery cloth	Michaels Solid white 100% cotton quilting fabric
Textile - Linen	Utrecht Unprimed Belgian 100% Linen Canvas Type 185
Alum	Kremer Pigments #64100 Potassium aluminum sulfate
Potash	Kremer Pigments #64040 Potassium carbonate

Bundle 4			
Alum A		Cochineal A+B	
Material	Amount (g)	Material	Amount (g)
textile	1.1	textile	1.93
alum	0.22	cochineal	0.24
water	55	water	120.63

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Dye	Cochineal	Cochineal

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Textile - Cotton embroidery cloth	Michaels Solid white 100% cotton quilting fabric
Textile - Linen	Utrecht Unprimed Belgian 100% Linen Canvas Type 185
Alum	Kremer Pigments #64100 Potassium aluminum sulfate
Potash	Kremer Pigments #64040 Potassium carbonate

Bundle 5			
Alum A		Cochineal A+B	
Material	Amount (g)	Material	Amount (g)
textile	1.23	textile	2.06
alum	0.25	cochineal	0.26
water	61.5	water	128.75

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