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Madder Lake Production

(MedColourTech Project – 2006-2009)

August 2007:

Test-Production of Madder Lake pigment, according to a historic recipe, mentioned in “Die Farbstoffe” by P. Schützenberger, 1873.



Turkish Madder Roots



The shredded and washed madder roots are boiled in an alum solution...



filtered...



**sodium carbonate is added to the cold madder solution
and brought to boiling point**



The hot liquid...



is left to cool down...



and pumped through a high pressure filter system.



The extracted pigment stays in the filters, the filtered liquid is almost clear.



The filters are separated...



and left to dry.



Unground dried madder lake.

16 Madder Lakes were tested for lightfastness in July 2008.

The Madder Lakes were ground in linseed oil and applied onto wood.
Half of the colors were covered with black paper, half of each color was exposed to sunlight.

On 29 September 2008 the following visual results could be recorded:

Product No	Product Name	Results	Product No	Product Name	Results
37202	Madder Lake	Satisfactory	372057	Madder Lake "CRIMSON"	Poor
37203	Madder Lake, yellowish	Good	372058	Madder Lake "HAZELNUT"	Excellent
372051	Madder Lake "CORAL"	Satisfactory	37210	Madder Lake, dark	Fair
372052	Madder Lake "SALMON"	Fair	37217	Madder Lake, violet-brown	Good
372053	Madder Lake "Peach"	Good	372141	Madder Lake, luminous dark red	Satisfactory
372054	Madder Lake "Rose"	Satisfactory	372142	Madder Lake, brilliant bordeaux red	Satisfactory
372055	Madder Lake "ROSE WOOD"	Fair	23610	Alizarine Crimson dark	Very good
372056	Madder Lake "ORANGE"	Fair	23611	Alizarine Crimson dark, Type C	Very good

- Very good = no bleaching can be seen
- Good = slight bleaching, the color character is unchanged
- Satisfactory = the hue has changed its intensity, it is still clearly identifiable
- Fair = the hue has changed visibly, it is much weaker but still identifiable
- Poor = hue and intensity have changed immensely, the original color can hardly be recognized



pigment ground in medium like gum arabic, painted on paper for lightfastness tests



Lightfastness test

The following products were produced for the MedColourTech project:

- 372048 Madder Lake, Kremer Made, 09/2008 - MedColourTech - "COGNAC", precipitated with tin**
- 372049 Madder Lake, Kremer Made, 08/2008 - MedColourTech - "ORANGE", precipitated with tin**
- 372050 Madder Lake, Kremer Made, 08/2008 - MedColourTech - "SAFFRON"**
- 372051 Madder Lake, Kremer Made, 08/2007 - MedColourTech - "CORAL"**
- 372052 Madder Lake, Kremer Made, 09/2007 - MedColourTech - "SALMON"**
- 372053 Madder Lake, Kremer Made, 12/2007 - MedColourTech - "PEACH"**
- 372054 Madder Lake, Kremer Made, 12/2007 - MedColourTech - "ROSÉ"**
- 372055 Madder Lake, Kremer Made, 06/2008 - MedColourTech - "ROSEWOOD"**
- 372056 Madder Lake, Kremer Made, 06/2008 - MedColourTech - "ORANGE"**
- 372057 Madder Lake, Kremer Made, 06/2008 - MedColourTech - "CRIMSON", precipitated with copper**
- 372058 Madder Lake, Kremer-Made, 07/2008 - MedColourTech - "HAZELNUT", precipitated with copper**
- 372059 Madder Lake, Kremer-Made, 07/2008 - MedColourTech - "BROWN", precipitated with tin**





Madder Lakes