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PureSynth®
Research Chemicals

Product Specification

Product Name:
Standard Colour Solution Y (Yellow) for examination of the colour of solutions, Pur*Cert* (according to Chinese Pharmacopoeia)

Product No.:	PSR50441
Brand:	PureSynth
CAS No.:	NA
Molecular Formula:	NA
Molecular Weight:	NA

Assignment of CIE Tristimulus and L*a*b* values (as per ChP Method 3):

Test Results:	X10 = 84.757	L* = 96.3017
	Y10 = 90.737	a* = -2.5018
	Z10 = 59.32	b* = 29.5166

Tristimulus Test Method:

The result reported above was determined by analysis of a sample of this lot taken at the time of manufacture.

The spectral characteristics of the sample were recorded in a 10 mm cell between 380nm and 780nm using a Shimadzu UV1800 spectrophotometer in accordance with an in-house test method. The tristimulus and L*a*b* values reported above were calculated from this data according to the ChP and ASTM method E308, using Illuminant D65 and the CIE 1964 Supplementary Standard (10°) Observer.

Specification and Analysis of ChP colour solution:

Test results for the Standard Solutions used in the manufacture of this product were within the specifications outlined below:

Standard Solutions	Specified Conc. (g/l
Cobaltous chloride	59.5 ±0.1
Potassium dichromate	0.8 ±0.1
Cupric sulfate	62.4 ±0.1

The concentration values were assigned using a complexiometric titration method that is traceable to NIST SRM 915b or 136e.

The information represented here may/may not represent the entire product specification and application recommended by PureSynth Research Chemicals. This information is for the user scientists or trading community as a guide in their applications. The company claims no liability for misuse resulting due to wrong usage of the information above.
For queries on this Specifications, please contact our technical team at technical@pure-synth.com

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Colour solution formulation according to ChP:

Table 1: Composition of stock Reference Solution

Quantity Standard Solution (ml) per 100 ml of Reference Solution Y

Cobaltous chloride	Potassium dichromate	Cupric sulfate	Water
4.0	23.3	0.0	72.7

Table 2: Composition of Reference Solutions 0.5 – 10

No. of Reference solution	0.5	1	2	3	4	5
Stock Reference solution (ml)	0.3	0.5	1.0	1.5	2.0	2.5
Water (ml)	9.8	9.5	9.0	8.5	8.0	7.5

No. of Reference solution	6	7	8	9	10
Stock Reference solution (ml)	3.0	4.5	6.0	7.5	10.0
Water (ml)	7.0	5.5	4.0	2.5	0.0

Specification: PC-1.0-QA/362

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