64683 Einhausen Marie-Curie-StraBe. 3, Germany
Website: www.pure-synth.com
Phone: 1800-8908-260
Email: info@pure-synth.com

PureSynth®
Research Chemicals

Product Specification

Product Name:

Standard Colour Solution YG (Yellowish Green) for examination of the colour of solutions, Pur*Cert* (according to Chinese Pharmacopoeia)

Product No.:	PSR50451
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:	X_{10} = 83.454	L* = 96.8567
	Y_{10} = 92.089	a* = -7.3744
	Z_{10} = 62.893	b* = 27.2419

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.

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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 YG

Cobaltous chloride	Potassium dichromate	Cupric sulfate	Water
1.2	22.8	7.2	68.8

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/539