

a Waggoner evaluation of color vision deficiencies



 doctor's name / clinic

 patient name

 age

 date

Standard PIP 24
 method

Daylight / 6500K Standard Room Illumination
 test conditions

Protan / Deutan Section

Plate #	R	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Pass	16	2	42	28	8	74	15	5	29	57	5	45	10	6	7	
✓ or ✗																
																<small>total correct</small>

NOTE:
 Non-standard lighting may allow false negatives
 (condition is not picked up) for mildly deficient persons.

Protan / Deutan Scoring

Pass: 2 or less wrong.
 Fail: 3 or more wrong. Test time: 3 seconds each.

Sign of Red - Green Deficiency

Plate 4 - answered "21" or miss
 Plate 5 - answered "17" or miss
 Hesitation is a sign of mild deficiency and should be noted.

Demo "R"

Designed to be seen by all (color deficient and normal).
 Consider malingering if all shapes not correctly identified.

Protan | Deutan Differentiation

Plate #15	35	Both 3 + 5 seen = normal color vision Mild deficient may see both numbers Protans* see the 5 easier Deutans* see the 3 easier
	35	3 seen: Strong Deutan*
	35	5 seen: Strong Protan*

Tritan Estimation

Plate # 16	2	2 correct answers suggests normal blue - yellow color vision or mild Tritan
Plate # 17	9	1 or 2 misses: suggests strong Tritan* deficiency (recommend extended color vision testing)

*Information on extended color vision testing available at www.KonanMedical.com

- Results:**
- Normal color vision
 - Red - Green color deficiency
 Protan or Deutan
 recommend extended color vision testing
 - Blue - yellow color deficiency
 Tritan
 recommend extended color vision testing
 - Red color deficiency - Protan
 recommend extended color vision testing
 - Green color deficiency - Deutan
 recommend extended color vision testing

Notes:



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Standard PIP 24 - Illiterate Daylight / 6500K Standard Room Illumination
method test conditions

Plate #	R	1	2	3	4	5	6	7	
Pass	☆ ○ × □	☆ ○	× ○	○ ×	○ □	□ ○	☆ × ○	○	
Fail	☆ ○ × □	☆ ○	× ○	○ ×	○ □	□ ○	☆ × ○	○	
Correct ✓									
Wrong ✗									total correct

Scoring | Pass = identify all 6 plates or find 6 circles in plates 1 to 6. Test time: about 30 seconds each. Tritan Plate 7 is optional.

Demo "R" | Designed to be seen by all (color deficient and normal). Consider malingering if all shapes not correctly identified.

Key to Fail Results | **BLACK** shapes are seen by all persons (color normal and color deficient).
 If **BLACK** shapes are not identified, check for very poor acuity or malingering.
GREY shapes may not be seen by persons with **Protan** or **Deutan** deficiencies.
 Hesitation may be a sign of mild deficiency and noted.

NOTE:
 Non-standard lighting may allow false negatives for mild color vision deficiencies.

Alternate Method | For very young or disabled, ask them "show me the ball / circle" on plates 1 to 6:
 - Color vision normal subjects should find the circle on plates 1 to 6
 - Color deficient subjects should find a circle on plates 1 and 3
 - If not, review instructions and / or suspect malingering. This method is featured at World Special Olympics.

FRM-105_A

Results: Normal color vision Red - green color deficiency (Protan or Deutan)

Notes: Blue - yellow color deficiency suspected (Tritan)
 recommend extended color vision testing

