

# NANOCOLOR® Analytical Quality Control



## NANOCONTROL Standards

REF 92507 - 92590



Opened on: ..... LOT: .....  
 Place of measurement: ..... Name of operator: .....  
 Date of 1<sup>st</sup> measurement: ..... Photometer: .....  
 Date of 2<sup>nd</sup> measurement: ..... Instrument No.: .....

Parameter REF	Test No.	NANOCOLOR® Test	Concentration	Confidence interval C.I.	1 <sup>st</sup> reading	LOT of used test	2 <sup>nd</sup> reading	LOT of used test	in C.I.
AOX 92507	0-07	AOX 3	1.0** mg/L AOX	0.8–1.2					☺/☹
Chlorine 92517	1-16	Chlorine	1.00** mg/L Cl <sub>2</sub>	0.90–1.10					☺/☹
	0-17	Chlorine 2	0.80** mg/L Cl <sub>2</sub>	0.70–0.90					☺/☹
Chromate 92524	0-24	Chromate 5	2.0 mg/L CrO <sub>4</sub> <sup>2-</sup>	1.8–2.2					☺/☹
	0-59	total Chromium 2	0.90 mg/L Cr	0.80–1.00					☺/☹
	1-25	Chromate	0.40* mg/L CrO <sub>4</sub> <sup>2-</sup>	0.36–0,44					☺/☹
COD 92522	0-22	COD 60	30 mg/L O <sub>2</sub>	26–34					☺/☹
	0-27	COD 40	30 mg/L O <sub>2</sub>	26–34					☺/☹
	0-93	TOC 25	12.0** mg/L C	10.0–14.0					☺/☹
COD 92526	0-26	COD 160	100 mg/L O <sub>2</sub>	90–110					☺/☹
	0-33	COD 300	100 mg/L O <sub>2</sub>	90–110					☺/☹
	0-36	COD LR 150	100 mg/L O <sub>2</sub>	90–110					☺/☹
	0-94	TOC 60	40 mg/L C	35–45					☺/☹
COD 92528	0-23	COD 10000	4.00 g/L O <sub>2</sub>	3.60–4.40					☺/☹
	0-28	COD 15000	4.0 g/L O <sub>2</sub>	3.6–4.4					☺/☹
COD 92529	0-30	COD 600	400 mg/L O <sub>2</sub>	360–440					☺/☹
	0-29	COD 1500	400 mg/L O <sub>2</sub>	360–440					☺/☹
	0-38	COD HR 1500	400 mg/L O <sub>2</sub>	360–440					☺/☹
	0-99	TOC 600	160 mg/L C	140–180					☺/☹

Remarks: ..... Control: ..... Signature: ..... Signature: .....

\* Use 4.0 mL Standard and 16.0 mL distilled water for sample.  
 \*\* Observe deviating procedure!  
 \*\*\* Use 1.0 mL 100+ solution and 1.0 mL distilled water for sample.  
 \*\*\*\* 1.0 mL Standard + 3.0 mL distilled water for sample.  
 These standards can also be used together with photometers and reagents of other manufacturers.

☺ in C.I.  
 ☹ out of C.I.

Please, fill in the form clearly

## NANOCONTROL Standards

REF 92507 - 92590



Opened on: ..... LOT: .....  
 Place of measurement: ..... Name of operator: .....  
 Date of 1<sup>st</sup> measurement: ..... Photometer: .....  
 Date of 2<sup>nd</sup> measurement: ..... Instrument No.: .....

Parameter REF	Test No.	NANOCOLOR <sup>®</sup> Test	Concentration	Confidence interval C.I.	1 <sup>st</sup> reading	LOT of used test	2 <sup>nd</sup> reading	LOT of used test	in C.I.
Nitrite 92568	1-67	Nitrite	0.060* mg/L NO <sub>2</sub> -N	0.054–0.066					☺/☹
	0-68	Nitrite 2	0.30 mg/L NO <sub>2</sub> -N	0.25–0.35					☺/☹
	0-69	Nitrite 4	2.1*** mg/L NO <sub>2</sub> -N	1.9–2.3					☺/☹
ortho-Phosphate 92576	0-76	ortho-Phosphate 1	1.00 mg/L PO <sub>4</sub> -P	0.90–1.10					☺/☹
	0-95	ortho-Phosphate LR 1	0.25**** mg/L PO <sub>4</sub> -P	0.22–0.28					☺/☹
	1-77	ortho-Phosphate	0.20* mg/L PO <sub>4</sub> -P	0.18–0.22					☺/☹
Sulfate 92562	0-60	Sulfate MR 200	120 mg/L SO <sub>4</sub> <sup>2-</sup>	110–130					☺/☹
	0-62	Sulfate LR 200	120 mg/L SO <sub>4</sub> <sup>2-</sup>	110–130					☺/☹
Sulfite 92590	0-90	Sulfite 100 (not suitable for test 0-89)	50 mg/L SO <sub>3</sub> <sup>2-</sup>	45–55					☺/☹
TOC 92575	0-75	TOC 30	10 mg/L C	8.5–11.5					☺/☹
TOC 92578	0-78	TOC 300	100 mg/L C	85–115					☺/☹

Remarks: ..... Control: ..... Signature: ..... Signature: .....

\* Use 4.0 mL Standard and 16.0 mL distilled water for sample.  
 \*\* Observe deviating procedure!  
 \*\*\* Use 1.0 mL **100+ solution** and 1.0 mL distilled water for sample.  
 \*\*\*\* 1.0 mL Standard + 3.0 mL distilled water for sample.  
 These standards can also be used together with photometers and reagents of other manufacturers.

☺ in C.I.  
 ☹ out of C.I.

Please, fill in the form clearly

## NANOCONTROL 100+ Addition Solution\*

REF 92507, 92524, 92568, 92576



Sample: ..... LOT: .....  
 Sampling date: ..... Name of operator: .....  
 Sample preparation: ..... Photometer: .....  
 Date of measurement: ..... Instrument No.: .....

Parameter REF	Test No.	NANOCOLOR <sup>®</sup> Test	Sample concentration (mg/L)	Increase	Theor. value after addition Val. 1 + Val. 2 (mg/L)	Measured value after addition (mg/L)	Deviation		in order ± 20 %	
			Val. 1	Val. 2	Val. 3	Val. 4	Val. 5	Val. 4 - Val. 3 (mg/L)		Val. 5 x 100 / Val. 2 (%)
AOX 92507	0-07	AOX 3		(0.5 mL <b>standard*</b> to 100 mL) + 1.0 mg/L AOX						☺/☹
Chromate 92524	0-24 0-59 1-25	Chromate 5 total Chromium 2 Chromate		(0.5 mL to 100 mL) + 0.22 mg/L Cr + 0.50 mg/L CrO <sub>4</sub> <sup>2-</sup>						☺/☹
	0-24 0-59 1-25	Chromate 5 total Chromium 2 Chromate		(1.0 mL to 100 mL) + 0.45 mg/L Cr + 1.0 mg/L CrO <sub>4</sub> <sup>2-</sup>						☺/☹
	0-24 0-59 1-25	Chromate 5 total Chromium 2 Chromate		(1.5 mL to 100 mL) + 0.67 mg/L Cr + 1.5 mg/L CrO <sub>4</sub> <sup>2-</sup>						☺/☹
Nitrite 92568	1-67 0-68	Nitrite Nitrite 2		(0.5 mL to 100 mL) + 0.02 mg/L NO <sub>2</sub> -N						☺/☹
	1-67 0-68	Nitrite Nitrite 2		(1.0 mL to 100 mL) + 0.04 mg/L NO <sub>2</sub> -N						☺/☹
	1-67 0-68	Nitrite Nitrite 2		(1.5 mL to 100 mL) + 0.06 mg/L NO <sub>2</sub> -N						☺/☹
ortho-Phosphate 92576	0-76 0-95 1-77	ortho-Phosphate 1 ortho-Phosphate LR 1 ortho-Phosphate		(0.5 mL to 100 mL) + 0.10 mg/L PO <sub>4</sub> -P						☺/☹
	0-76 0-95 1-77	ortho-Phosphate 1 ortho-Phosphate LR 1 ortho-Phosphate		(1.0 mL to 100 mL) + 0.20 mg/L PO <sub>4</sub> -P						☺/☹
	0-76 0-95 1-77	ortho-Phosphate 1 ortho-Phosphate LR 1 ortho-Phosphate		(1.5 mL to 100 mL) + 0.30 mg/L PO <sub>4</sub> -P						☺/☹

Remarks:

Signature:

Control:

\* The addition is not applicable for the tests of chlorine, COD, TOC and sulfite. For AOX use standard solution instead of 100+ solution.  
 Copy this table before use. Leave blank fields which are not used.