

Table S1. Details of Test Chemicals

Compound	Vendor
<b>Potassium Hexachloroplatinate (lot A)</b>	Alfa Aesar
<b>(lot B)</b>	
<b>Potassium Tetrachloroplatinate (lot A)</b>	Alfa Aesar
<b>(lot B)</b>	
<b>Hydrogen Hexahydroxy Platinate</b>	Johnson Matthey
<b>Potassium Tetranitroplatinate</b>	Aldrich
<b>Tetraammineplatinum chloride</b>	
<b>(Aldrich 323330-Lot A)</b>	Aldrich
<b>(Aldrich 323330-Lot B)</b>	Aldrich
<b>(Alfa Aesar 10544)</b>	Alfa Aesar
<b>(Alfa Aesar 10836 Bottle A)</b>	Alfa Aesar
<b>(Alfa Aesar 10836 Bottle B)</b>	Alfa Aesar
<b>Tetraammineplatinum nitrate</b>	Aldrich
<b>Tetraammineplatinum hydrogen carbonate</b>	Alfa Aesar
<b>Tetraammineplatinum hydroxide</b>	Alfa Aesar
<b>Cisplatin</b>	Sigma
<b>Transplatin</b>	Alpha Aesar
<b>Potassium trichloroammineplatinate</b>	Alpha Aesar
<b>Cobalt Chloride</b>	CDI Repository
<b>Tetraamminepalladium(II)dichloride</b>	Alpha Aesar
<b>Potassium Tetrachloropalladate</b>	Alpha Aesar

Catalogue # Product Code	Lot/Batch	Molecular Weight	Linear Formula	Oxidation State	CAS #
12169	Y23B008 W13C087	486.01	$K_2PtCl_6$	IV	16921-30-5
43946	T01B036 U09C015	415.11	$K_2PtCl_4$	II	10025-99-7
186001	CA0160	299.14	$H_2Pt(OH)_6$	IV	51850-20-5
249963	MKBP9956V	457.3	$K_2Pt(NO_2)_4$	II	13815-39-9
323330	MKBT4826V	334.11 (anhy)	$Pt(NH_3)_4Cl_2 \cdot xH_2O$	II	108374-32-9
323330	MKBZ7171V				
10544	R26C034		$Pt(NH_3)_4Cl_2 \cdot H_2O$		13933-33-0
10836	CY0020				13933-33-0
10836	CY0020				13933-33-0
482293	MKBV7221V	387.21	$Pt(NH_3)_4(NO_3)_2$	II	20634-12-2
44042	K06Y046	385.24	$[Pt(NH_3)_4](HCO_3)_2$	II	123439-82-7
46319	W21B008	297.23 (anhy)	$(NH_3)_4Pt(OH)_2 \cdot xH_2O$	II	312695-70-8
P4394	MKBD6877V	300.05	$Pt(NH_3)_2Cl_2$	II	15663-27-1
10472	CF0118	300.06	$PtCl_2(NH_3)_2$	II	14913-33-8
39433	H27Y044	357.56	$K(PtCl_3NH_3)$	II	13820-91-2
C74.4-PTL	10/31/2016	237.93	$CoCl_2 \cdot 6H_2O$	II	7791-13-1
11036	T31D025	245.43 (anhy)	$Pd(NH_3)_4Cl_2 \cdot H_2O$	II	13933-31-8
11885	U21D065	326.42	$K_2PdCl_4$	II	10025-98-6

## Purity

99.99% 40.04%Pt total metallic impurities <100 ppm

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99.99% Premion® 46.87% Pt Total metallic impurities < 100 ppm

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64.82% Pt

98% 42.3%Pt

99.99% trace metals basis 53.7% Pt <200 ppm TM (130 ppm)

99.99% trace metals basis 51.2% Pt <150 ppm TM (16.5 ppm)

Pt 55.96 %

Premion® 99.995% (metals basis) Pt 54.74%

Premion® 99.995% (metals basis) Pt 54.74%

99.995% trace metals basis < 55 ppm TM (18.3)

Pt = 50.51 % Total impurities 243 ppm

Pt 58.86%

excluding Au Ag < 20ppm (6.8ppm) trace metal analysis < 100 ppm (50.7) 99.999%

64.83% Pt

95% minimum 53.3% Pt 29% Cl

25% Co

99.9% (metals basis) = Pd 40.03%

Premion® 99.99% (metals basis) Pd 32.48% Total metallic impurities < 100 ppm

## Weblink to Certificate of Analysis

<https://www.alfa.com/en/certs/certs1/12169-Y23B008.pdf>

<https://www.alfa.com/en/certs/certs1/12169-W13C087.pdf>

<https://www.alfa.com/en/certs/certs4/43946-T01B036.pdf>

<https://www.alfa.com/en/certs/certs4/43946-U09C015.pdf>

<https://www.sigmaaldrich.com/catalog/CertOfAnalysisPage.do?symbol=249963&LotNo=MKBP9956V&brandTest:>

<https://www.sigmaaldrich.com/catalog/CertOfAnalysisPage.do?symbol=323330&LotNo=MKBT4826V&brandTest:>

<https://www.sigmaaldrich.com/catalog/CertOfAnalysisPage.do?symbol=323330&LotNo=MKBZ7171V&brandTest:>

<https://www.alfa.com/en/certs/certs1/10544-R26C034.pdf>

<https://www.alfa.com/en/certs/certs1/10836-CY0020.pdf>

<https://www.alfa.com/en/certs/certs1/10836-CY0020.pdf>

<https://www.sigmaaldrich.com/catalog/CertOfAnalysisPage.do?symbol=482293&LotNo=MKBV7221V&brandTest:>

<https://www.alfa.com/en/certs/certs4/44042-K06Y046.pdf>

<https://www.alfa.com/en/certs/certs4/46319-W21B008.pdf>

<https://www.sigmaaldrich.com/catalog/CertOfAnalysisPage.do?symbol=P4394&LotNo=MKBD6877V&brandTest:>

<https://www.alfa.com/en/certs/certs1/10472-CF0118.pdf>

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<https://www.alfa.com/en/certs/certs1/11036-T31D025.pdf>

<https://www.alfa.com/en/certs/certs1/11885-U21D065.pdf>

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